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Behav. Sci., Volume 12, Issue 8 (August 2022) – 54 articles

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Cover Story (**view full-size image (/files/uploaded/covers/behavsci/big_cover-behavsci-v12-i8.png)**): This study aspires to inform the design of online communication technologies and tools for training empathy—a quality expected in many modern professions such as leaders, educators, and social and healthcare providers. While empathetic ability is often being linked to the ability to automatically mimic others, this relationship has not been studied when capturing facial mimicry using video-based facial recognition technologies, as opposed to impractical electromyography. Further, the potential difference in empathetic ability across different demographic groups has often been ignored in previous study designs. To address these gaps, this study investigates whether empathetic ability varies with age, gender, and ethnicity and analyses the relationship between empathy and facial mimicry captured using a facial recognition technology. **View this paper (https://www.mdpi.com/2076-328X/12/8/250)**

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Boredom in a Time of Uncertainty: State and Trait Boredom's Associations with Psychological Health during COVID-19 (/2076-328X/12/8/298)

by **Emily R. Weiss (https://sciprofiles.com/profile/2359354)**, **McWelling Todman (https://sciprofiles.com/profile/author/VzY5R1pPMnRrTlphdStVWTBnNDAxbkxHMDJNQVFKaXJuNTkwT3UycmZqMD0=)**, **Emily Maple (https://sciprofiles.com/profile/2403805)** and **Rebecca R. Bunn (https://sciprofiles.com/profile/2398903)**

Behav. Sci. **2022**, *12*(8), 298; **https://doi.org/10.3390/bs12080298 (https://doi.org/10.3390/bs12080298)** - 21 Aug 2022

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Abstract Throughout the COVID-19 pandemic, studies have demonstrated increases in boredom and its negative impact on mental health. This cross-sectional study examines state and trait boredom at four different points of the pandemic using an online sample of participants from the United States (**[...] Read more.**

(This article belongs to the Special Issue **Boredom in the COVID-19 Pandemic (/journal/behavsci/special_issues/boredom)**)

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Empirical Investigation of Work-Related Social Media Usage and Social-Related Social Media Usage on Employees' Work Performance (/2076-328X/12/8/297)

by **Rui Miguel Dantas (https://sciprofiles.com/profile/1522680)**, **Hira Aftab (https://sciprofiles.com/profile/1242643)**, **Sumaira Aslam (https://sciprofiles.com/profile/author/ZGkxa0JxVEdCQlg5T3Vxa052N3lvVzFUcWFtaHJXVkQzazRHSjFuQzMzbz0=)**, **Muhammad Ussama Majeed (https://sciprofiles.com/profile/1624148)**, **Anabela Batista Correia (https://sciprofiles.com/profile/1546114)**, **Hamza Ahmad Qureshi (https://sciprofiles.com/profile/1480747)** and **João Luis Lucas (https://sciprofiles.com/profile/2482819)**

Behav. Sci. **2022**, *12*(8), 297; **https://doi.org/10.3390/bs12080297 (https://doi.org/10.3390/bs12080297)** - 20 Aug 2022

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Abstract The trend of using social media in the workplace is now becoming ubiquitous. Along witbenefits, social media also has negative consequences. Employees use social media for both work and social purposes. Therefore, using a quantitative approach, this study explores the impact of work-related **[...] Read more.**
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Difficulties with Emotion Regulation during COVID-19 and Associations with Boredom in College Students (/2076-328X/12/8/296)

by **Elizabeth H. Weybright (https://sciprofiles.com/profile/2311028)**, **Erica L. Doering (https://sciprofiles.com/profile/2377808)** and **Sammy Perone (https://sciprofiles.com/profile/author/NlhIZ3EvbXlPUVRGM2poVlYrNVlOZ1BmR0liQmk2UW5CVFlhT3pNSG5QZz0=)**
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Abstract COVID-19 related restrictions resulted in a significant lifestyle change for many young adults in the United States. Although boredom and emotional self-regulation are clearly connected in empirical research, the question remains of what this association looks like in unique circumstances, such as early **[...] Read more.**
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Behav. Sci. **2022**, *12*(8), 295; **https://doi.org/10.3390/bs12080295 (https://doi.org/10.3390/bs12080295)** - 19 Aug 2022
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Abstract This study aims at evaluating the psychometric properties of a new scale to measure experienced happiness—the Measure of Happiness ( )—in a nonclinical sample composed of Italian adults from the general population. The MH was developed not only to provide a global measure of **[...] Read more.**

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Student Perceptions of the Resilience in a Confinement Due to COVID-19 in University of A Coruña: A Qualitative Research (/2076-328X/12/8/294)

by **María-Paula Ríos-de-Deus (https://sciprofiles.com/profile/author/Z3pCSHZJbTE1a21DYTJ6N1JEaVVuY01TVmFGSWR4TnJ3RlNxdGx6UDZOYz0=)**, **María-Luisa Rodicio-García (https://sciprofiles.com/profile/2518224)**, **Laura Rego-Agraso (https://sciprofiles.com/profile/author/bzh2Z1d2cU51Q1luNFB4byszbGpjK1FWTkpWQUZFUTcvUmdxbTJ0SnpDUT0=)**, **María-José Mosquera-González (https://sciprofiles.com/profile/author/NEY3cFFyWm9sdGlSdEQ3bWh1WHR1OUJWWWUyN0p2THpmcEtuQmcrUEFqUT0=)**, **Marta Elena Losa-Iglesias (https://sciprofiles.com/profile/356019)**, **Ricardo Becerro-de-Bengoa-Vallejo (https://sciprofiles.com/profile/356015)** and **Daniel López-López (https://sciprofiles.com/profile/355991)**
Behav. Sci. **2022**, *12*(8), 294; **https://doi.org/10.3390/bs12080294 (https://doi.org/10.3390/bs12080294)** - 19 Aug 2022
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Abstract The home confinement caused by COVID-19 has caused university students to express feelings, negative experiences, and concerns about the confinement situation they were experiencing. This prompted the development of research on resilience, which shows that it is closely related to well-being. The general **[...] Read more.**
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Investigating Students' Answering Behaviors in a Computer-Based Mathematics Algebra Test: A Cognitive-Load Perspective (/2076-328X/12/8/293)

by **Jing-Fong Wang (https://sciprofiles.com/profile/1534791)**, **Tzu-Hua Wang (https://sciprofiles.com/profile/1534741)** and **Chao-Hsien Huang (https://sciprofiles.com/profile/2367727)**
Behav. Sci. **2022**, *12*(8), 293; **https://doi.org/10.3390/bs12080293 (https://doi.org/10.3390/bs12080293)** - 18 Aug 2022
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Abstract Computer-based testing is an emerging method to evaluate students' mathematics learning outcomes. However, algebra problems impose a high cognitive load due to requiring multiple calculation steps, which might reduce students' performance in computer-based testing. In order to understand students' cognitive load when answering **[...] Read more.**
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***Only Words Count; the Rest Is Mere Chattering*: A Cross-Disciplinary Approach to the Verbal Expression of Emotional Experience (/2076-328X/12/8/292)**

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Behav. Sci. **2022**, *12*(8), 292; **https://doi.org/10.3390/bs12080292 (https://doi.org/10.3390/bs12080292)** - 18 Aug 2022
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Abstract The analysis of sequences of words and prosody, meter, and rhythm provided in an interview addressing the capacity to identify and describe emotions represents a powerful tool to reveal emotional processing. The ability to express and identify emotions was analyzed by means of **[...] Read more.**
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Relationship between Attachment to Pet and Post-Traumatic Growth after Pet Loss: Mediated Moderating Effect of Cognitive Emotion Regulation Strategy through Separation Pain (/2076-328X/12/8/291)

by **Hyo Jin Park (https://sciprofiles.com/profile/author/b3NIeFJ2VXdKZzdoOGtGT0VUck9paHY5Zk1CRkxYWXNpK0prZjduVVVyaz0=)** and **Goo-Churl Jeong (https://sciprofiles.com/profile/1816408)**
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Abstract The declining fertility rate and an aging population have accelerated the number of single-person households and nuclear families, and the number of households raising pets has naturally increased. However, pet owners experience great sorrow and trauma due to the death of their pets. **[...] Read more.**
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Open Access Article **(/2076-328X/12/8/290/pdf?version=1661159331)**

The Protective Role of Mature Defense Mechanisms on Satisfaction with Life in the COVID-19 Era: A Moderated Mediation Analysis (/2076-328X/12/8/290)

by **Alessio Gori (https://sciprofiles.com/profile/452057)**, **Eleonora Topino (https://sciprofiles.com/profile/991985)**, **Alessandro Musetti (https://sciprofiles.com/profile/1174672)**, **Marco Giannini (https://sciprofiles.com/profile/1453908)**, **Rosapia Lauro Grotto (https://sciprofiles.com/profile/1583439)**, **Andrea Svicher (https://sciprofiles.com/profile/2090721)** and **Annamaria Di Fabio (https://sciprofiles.com/profile/401832)**
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Abstract The COVID-19 pandemic significantly influenced people's lives, with non-negligible consequences for the perception of well-being. This study sought to examine the effect of anxiety, post-traumatic impairment, and mature defenses on life satisfaction during the COVID-19 pandemic. One thousand three hundred thirty-nine Italian individuals **[...] Read more.**
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The Association between Video Game Type and Aggressive Behaviors in Saudi Youth: A Pilot Study (/2076-328X/12/8/289)

by Majid A. Aleissa (https://sciprofiles.com/profile/2542402), Shuliweeh Alenezi (https://sciprofiles.com/profile/1847664), Hassan N. Saleheen (https://sciprofiles.com/profile/author/MWVNaW9jVDBhcThGcXpUczcrNE1oRnFzV09YdnlTNG55dUYrSngzVUs1Zz0=), Sumayyah R. Bin Talib (https://sciprofiles.com/profile/author/blRZM01XRnovRjdkd2xPZXkzcjFqWDNaNWRycDc1SnNjeTZ4ZlJ0QjZNMD0=), Altaf H. Khan (https://sciprofiles.com/profile/author/b1FrQitremYxMFdmb0xKeW44V1A4R2JJbjNHekthNjNtTDRLZDdKR2RRYz0=), Shatha A. Altassan (https://sciprofiles.com/profile/2377351) and Ahmed S. Alyahya (https://sciprofiles.com/profile/1914877)

Behav. Sci. **2022**, *12*(8), 289; https://doi.org/10.3390/bs12080289 (https://doi.org/10.3390/bs12080289) - 15 Aug 2022

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Abstract Video gaming is a popular source of entertainment among children and adolescents. Although the Middle East is home to one of the fastest growing communities of video game users, most of the research established on this topic has been carried out through small **[...] Read more.**

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The Importance of Positive Psychological Factors among People Living with HIV: A Comparative Study (/2076-328X/12/8/288)

by Cristina Rivera-Picón (https://sciprofiles.com/profile/1415856), María Hinojal Benavente-Cuesta (https://sciprofiles.com/profile/author/UDVnbldBL1BhQnAzMVN1RzdycDYrd0hsVk5mNEEwM0Zad1VQc2lXejlqUT0=), María Paz Quevedo-Aguado (https://sciprofiles.com/profile/2041711) and Pedro Manuel Rodríguez-Muñoz (https://sciprofiles.com/profile/1106316)

Behav. Sci. **2022**, *12*(8), 288; https://doi.org/10.3390/bs12080288 (https://doi.org/10.3390/bs12080288) - 15 Aug 2022

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Abstract We aim to identify the differences in psychological well-being, resilience, and coping strategies between healthy subjects and HIV patients. The design followed in this work was empirical, not experimental, and cross-sectional with a correlational objective. The sample included a total of 399 participants **[...] Read more.**

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Effects of Ceftriaxone on Oxidative Stress and Inflammation in a Rat Model of Chronic Cerebral Hypoperfusion (/2076-328X/12/8/287)

by Apsorn Sattayakhom (https://sciprofiles.com/profile/1276860), Kosin Kalarat (https://sciprofiles.com/profile/author/QklPNHBONE5ZSXNteENlZkdHTjVvS2xTWU9JeDVUSG80T3FQRDZLTGZ5Zz0=), Thatdao Rakmak (https://sciprofiles.com/profile/2361006), Sompol Tapechum (https://sciprofiles.com/profile/2121138), Arnaud Monteil (https://sciprofiles.com/profile/1691103), Chuchard Punsawad (https://sciprofiles.com/profile/1109517), Sarawoot Palipoch (https://sciprofiles.com/profile/author/Z3ZrNy9GNXkyMGZkcmcxMzB4WUpkZDZtakVkWFhWSUY0WXJBaSs5OEVmdz0=) and Phanit Koomhin (https://sciprofiles.com/profile/815277)

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Abstract Ceftriaxone (CTX) exerts a neuroprotective effect by decreasing glutamate excitotoxicity. We further studied the underlying mechanisms and effects of CTX early post-treatment on behavior in a cerebral hypoperfusion rats. The rats' common carotid arteries (2VO) were permanently ligated. CTX was treated after ischemia. **[...] Read more.**

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Talking about Health: A Topic Analysis of Narratives from Individuals with Schizophrenia and Other Serious Mental Illnesses (/2076-328X/12/8/286)

by Tovah Cowan (https://sciprofiles.com/profile/author/cnhDN3JPWG5idUdJNnRrc1VKZEtuUT09), Zachary B. Rodriguez (https://sciprofiles.com/profile/2329074), Ole Edvard Granrud (https://sciprofiles.com/profile/2328986),

Michael D. Masucci (https://sciprofiles.com/profile/author/VE1kdisxVDhGV0JPVVdYWFRQTXBSQT09), Nancy M. Docherty (https://sciprofiles.com/profile/author/ZnhpWCtwMFVNUGRSeFF6VWFtekFkMXdmSGYrdUdDbjc0d3krTjFUR3BJcz0=) and Alex S. Cohen (https://sciprofiles.com/profile/2275674)
Behav. Sci. **2022**, *12*(8), 286; https://doi.org/10.3390/bs12080286 (https://doi.org/10.3390/bs12080286) - 13 Aug 2022
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Abstract Individuals with schizophrenia have higher mortality and shorter lifespans. There are a multitude of factors which create these conditions, but one aspect is worse physical health, particularly cardiovascular and metabolic health. Many interventions to improve the health of individuals with schizophrenia have been **[...] Read more.**
(This article belongs to the Special Issue **Health Behaviors and Outcomes across the Schizophrenia-Spectrum (/journal/behavsci/special_issues/schizophrenia_behav)**)

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Open Access Article (/2076-328X/12/8/285/pdf?version=1660715796)

A Decoding Prediction Model of Flexion and Extension of Left and Right Feet from Electroencephalogram (/2076-328X/12/8/285)

by Abeer Abdulaziz AlArfaj (https://sciprofiles.com/profile/1987256), Hanan A. Hosni Mahmoud (https://sciprofiles.com/profile/892071) and Alaaeldin M. Hafez (https://sciprofiles.com/profile/1992671)
Behav. Sci. **2022**, *12*(8), 285; https://doi.org/10.3390/bs12080285 (https://doi.org/10.3390/bs12080285) - 13 Aug 2022
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Abstract Detection of limb motor functions utilizing brain signals is a significant technique in the brain signal gain model (BSM) that can be effectively employed in various biomedical applications. Our research presents a novel technique for prediction of feet motor functions by applying a **[...] Read more.**

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The Prediction of Consumer Behavior from Social Media Activities (/2076-328X/12/8/284)

by Nada Ali Hakami (https://sciprofiles.com/profile/2266152) and Hanan Ahmed Hosni Mahmoud (https://sciprofiles.com/profile/892071)
Behav. Sci. **2022**, *12*(8), 284; https://doi.org/10.3390/bs12080284 (https://doi.org/10.3390/bs12080284) - 12 Aug 2022
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Abstract Consumer behavior variants are evolving by utilizing advanced packing models. These models can make consumer behavior detection considerably problematic. New techniques that are superior to customary models to be utilized to efficiently observe consumer behaviors. Machine learning models are no longer efficient in **[...] Read more.**
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Open Access Article (/2076-328X/12/8/283/pdf?version=1660723746)

Small Pupils Lead to Lower Judgements of a Person's Characteristics for Exaggerated, but Not for Realistic Pupils (/2076-328X/12/8/283)

by Wee Kiat Lau (https://sciprofiles.com/profile/2251155), Marian Sauter (https://sciprofiles.com/profile/1029912) and Anke Huckauf (https://sciprofiles.com/profile/author/QjBIbGx3RHRWSzIzbzIQQUhrdkdMekozSCtiY3d3NXRoVEk1RXpiVWVhYz0=)
Behav. Sci. **2022**, *12*(8), 283; https://doi.org/10.3390/bs12080283 (https://doi.org/10.3390/bs12080283) - 12 Aug 2022
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Abstract Our eyes convey information about a person. The pupils may provide information regarding our emotional states when presented along with different emotional expressions. We examined the effects of pupil size and vergence on inferring other people's characteristics in neutral expression eyes. Pupil sizes **[...] Read more.**
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Sound and Silence: The Effects of Environmental Conditions on State Boredom in an Online Study during the COVID-19 Pandemic (/2076-328X/12/8/282)

by Alana J. Anderson (https://sciprofiles.com/profile/2291428), Claire E. McMeen (https://sciprofiles.com/profile/author/VWVUWUdEUVBZNXYyK1lVTkkxQmR1NDArRDN5UHlzMGJNRDk1dUlWYSttYz0=), Sammy Perone (https://sciprofiles.com/profile/author/NlhIZ3EvbXlPUVRGM2poVlYrNVlOZ1BmR0liQmk2UW5CVFlhT3pNSG5QZz0=) and Elizabeth H. Weybright (https://sciprofiles.com/profile/2311028)

Behav. Sci. **2022**, *12*(8), 282; https://doi.org/10.3390/bs12080282 (https://doi.org/10.3390/bs12080282) - 12 Aug 2022

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Abstract Boredom is a negative emotion commonly experienced in mundane situations. Boredom is thought to arise from a mismatch between individuals and their expectation for environmental stimulation. People attempt to reduce boredom by increasing the stimulation in their environment (e.g., turning on TV or **[...] Read more.**

(This article belongs to the Special Issue **Boredom in the COVID-19 Pandemic (/journal/behavsci/special_issues/boredom)**)

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Open Access Article (/2076-328X/12/8/281/pdf?version=1660299378)

Adaptation of an Emotional Stroop Test for Screening of Suicidal Ideation in Portugal (/2076-328X/12/8/281)

by Graça Esgalhado (https://sciprofiles.com/profile/1575917), Henrique Pereira (https://sciprofiles.com/profile/1350762) and Patricia Silva (https://sciprofiles.com/profile/2089155)

Behav. Sci. **2022**, *12*(8), 281; https://doi.org/10.3390/bs12080281 (https://doi.org/10.3390/bs12080281) - 12 Aug 2022

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Abstract Cognitive instruments, especially those with emotional components, may be useful to address the limitations of self-report scales commonly used to assess suicidal ideation. The aim of this study was to develop an emotional Stroop test for screening suicidal ideation in Portugal. The project **[...] Read more.**

(This article belongs to the Special Issue **Clinical Psychology Research and Public Health (/journal/behavsci/special_issues/clinical_psychology)**)

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Photo Activity on Social Networking Sites and Body Dissatisfaction: The Roles of Thin-Ideal Internalization and Body Appreciation (/2076-328X/12/8/280)

by Changying Duan (https://sciprofiles.com/profile/2330488), Shuailei Lian (https://sciprofiles.com/profile/author/a0F4UkR5c0hQc1pEWlBIYXM5Y0lFbjJudmR1aE5sc01LeDdpcytJZnU5RT0=), Li Yu (https://sciprofiles.com/profile/2382499), Gengfeng Niu (https://sciprofiles.com/profile/2139272) and Xiaojun Sun (https://sciprofiles.com/profile/2568715)

Behav. Sci. **2022**, *12*(8), 280; https://doi.org/10.3390/bs12080280 (https://doi.org/10.3390/bs12080280) - 11 Aug 2022

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Abstract Objective: According to sociocultural theory, media is associated with detrimental effects on body image. Due to the popularity of social networking sites (SNS) and the prevalence of body image disturbance among young women, the association between them is worth further exploration. This study **[...] Read more.**

(This article belongs to the Special Issue **Frontiers in Cyberpsychology: The Influences of Internet and Online Applications in Daily Life (/journal/behavsci/special_issues/Cyber_psychology)**)

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Open Access Article (/2076-328X/12/8/279/pdf?version=1660218092)

The Number of Monthly Night Shift Days and Depression Were Associated with an Increased Risk of Excessive Daytime Sleepiness in Emergency

Physicians in South Korea (/2076-328X/12/8/279)

by **Song Yi Park (https://sciprofiles.com/profile/1945520)**, **Hyung Min Lee (https://sciprofiles.com/profile/author/cVZmMXl0ME42UVlQb3pCeWUwbE1uT2djSnhMQnBWTW5lcFo3d2F5VGdycz0=)** and **Jiyoung Kim (https://sciprofiles.com/profile/2201909)**

Behav. Sci. **2022**, *12*(8), 279; **https://doi.org/10.3390/bs12080279 (https://doi.org/10.3390/bs12080279)** - 11 Aug 2022

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Abstract This study aimed to report the prevalence and identify the factors associated with excessive daytime sleepiness (EDS) among emergency physicians in South Korea. We analyzed the Korean Emergency Physicians Survey data from 15 January to 26 February 2021. EDS was evaluated using the **[...] Read more.**

(This article belongs to the Special Issue **Personality, Individual Differences and Psychological Health at Work (/journal/behavsci/special_issues/at_work)**)

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Open Access Article **(/2076-328X/12/8/278/pdf?version=1660205572)**

"Don't Get Your Meat Where You Get Your Bread": Beliefs and Advice about Workplace Romance (/2076-328X/12/8/278)

by **Betty H. La France (https://sciprofiles.com/profile/2158739)**

Behav. Sci. **2022**, *12*(8), 278; **https://doi.org/10.3390/bs12080278 (https://doi.org/10.3390/bs12080278)** - 11 Aug 2022

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Abstract This investigation identified contemporary beliefs about workplace romance and compared how those beliefs have changed since 1986. Different kinds of advice about workplace romance, and how that advice was related to extant beliefs, were also evaluated. A nationwide sample (*N* = 259) **[...] Read more.**

(This article belongs to the Special Issue **Personal Workplace Relationships: Implications for Work and Life in a Rapidly Changing Society (/journal/behavsci/special_issues/work_life)**)

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Supporting Student Learning Needs in Tertiary Education: Institutional Support Structures Based on the Institutional Support Questionnaire (/2076-328X/12/8/277)

by **Lyndon Lim (https://sciprofiles.com/profile/1666885)** and **Yan Yin Ho (https://sciprofiles.com/profile/2340417)**

Behav. Sci. **2022**, *12*(8), 277; **https://doi.org/10.3390/bs12080277 (https://doi.org/10.3390/bs12080277)** - 11 Aug 2022

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Abstract This article presents and focuses on the Institutional Support Questionnaire (ISQ) that was developed and validated to complement the Learning Needs Questionnaire (LNQ). While the LNQ, validated and published earlier, assessed students' perceived learning needs, the ISQ assesses students' psychological perspectives of their **[...] Read more.**

(This article belongs to the Special Issue **Innovative Methodologies in the Educational Context: Psychological and Behavioral Aspects (/journal/behavsci/special_issues/educational_context)**)

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The Spillover Effect of Life Satisfaction on Customer Satisfaction: The Mediating Role of Service-Oriented Organizational Citizenship and the Moderating Role of Competition Climate (/2076-328X/12/8/276)

by **Yunyun Luan (https://sciprofiles.com/profile/2339095)**, **Meizhen Lv (https://sciprofiles.com/profile/author/dm1rL01FY1hiN1RSdlEwR3dwZ0FqWmJaeUdaYlh1WVRUWitiTzg1SVUvQT0=)** and **Lei Wang (https://sciprofiles.com/profile/2340920)**

Behav. Sci. **2022**, *12*(8), 276; **https://doi.org/10.3390/bs12080276 (https://doi.org/10.3390/bs12080276)** - 10 Aug 2022

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Abstract In the field of organizational management, research on employees' life experiences is insufficient. It remains unclear how employees' non-work experiences affect customer service quality. Building on the spillover theory (an individual's experience in one domain can be transferred to another domain) and the **[...] Read more.**

(This article belongs to the Section **Organizational Behaviors (/journal/behavsci/sections/organizational_behaviors)**)

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Open Access Article **(/2076-328X/12/8/275/pdf?version=1659964045)**

Social Media Exposure and Left-behind Children's Tobacco and Alcohol Use: The Roles of Deviant Peer Affiliation and Parent–Child Contact (/2076-328X/12/8/275)

by **Li Wu (https://sciprofiles.com/profile/2293896)**, **Liangshuang Yao (https://sciprofiles.com/profile/author/TG8yNnUzZ1JDRjdOTG9MYjJoWkNDSmJjRUcyM29aS3dMdkpjZEFtRXQybz0=)** and **Yuanxiang Guo (https://sciprofiles.com/profile/2296111)**

Behav. Sci. **2022**, *12*(8), 275; **https://doi.org/10.3390/bs12080275 (https://doi.org/10.3390/bs12080275)** - 08 Aug 2022

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Abstract The public has always been concerned about the problem behaviors of children and teenagers (such as cigarette and alcohol use), especially among disadvantaged groups (e.g., left-behind children in China); in the current information era, left-behind children's use of social media also has increasingly **[...] Read more.**
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Agility and Innovativeness: The Serial Mediating Role of Helping Behavior and Knowledge Sharing and Moderating Role of Customer Orientation (/2076-328X/12/8/274)

by **Sungjin Park (https://sciprofiles.com/profile/author/MVkvcUxTcUxEUk4rNFRJRkhpUXRhVDR1b3hhQnBTTmd2d2RCNEducU1mRT0=)** and **Keuntae Cho (https://sciprofiles.com/profile/1112462)**
Behav. Sci. **2022**, *12*(8), 274; **https://doi.org/10.3390/bs12080274 (https://doi.org/10.3390/bs12080274)** - 08 Aug 2022
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Abstract This study aims to understand the mechanism whereby the Agile approach works by analyzing the effect of agility on innovativeness, the sequential mediating effect of helping behavior and knowledge sharing, and the moderating effect of customer orientation. Data for 323 Information and Communication **[...] Read more.**
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Open Access Article **(/2076-328X/12/8/273/pdf?version=1660007785)**

Development and Validation of a Measure of Passive Aggression Traits: The Passive Aggression Scale (PAS) (/2076-328X/12/8/273)

by **Young-Ok Lim (https://sciprofiles.com/profile/author/bFEwMHhSWmF2N2dTQ1dhTVJicFBpenhFbXo4T0RWaE16cXVlT3FjaFlzUT0=)** and **Kyung-Hyun Suh (https://sciprofiles.com/profile/1535501)**
Behav. Sci. **2022**, *12*(8), 273; **https://doi.org/10.3390/bs12080273 (https://doi.org/10.3390/bs12080273)** - 08 Aug 2022
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Abstract Although passive aggression is known as a pathological personality trait, the concept is unclear, and there is a lack of tools to measure it comprehensively. Thus, this study developed and validated a tool for measuring passive-aggressive behaviors. Data on basic information about passive **[...] Read more.**

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Resilience among Malaysian Community Pharmacists and General Medical Practitioners Using the 10-Item Connor-Davidson Resilience Scale (CD-RISC): The First National Survey (/2076-328X/12/8/272)

by **Nahlah Elkudssiah Ismail (https://sciprofiles.com/profile/572359)**, **Wong Min Hui (https://sciprofiles.com/profile/2378389)**, **Khang Wen Goh (https://sciprofiles.com/profile/1992688)**, **Nanloh Samuel Jimam (https://sciprofiles.com/profile/670923)**, **Andi Hermansyah (https://sciprofiles.com/profile/2192131)** and **Long Chiau Ming (https://sciprofiles.com/profile/173167)**
Behav. Sci. **2022**, *12*(8), 272; **https://doi.org/10.3390/bs12080272 (https://doi.org/10.3390/bs12080272)** - 08 Aug 2022
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Abstract With the growing importance of the healthcare sector, resilience has become a fundamental personal quality that healthcare professionals need to cultivate to cope with adverse events in daily work. Distress in the workplace cannot only impact the well-being of healthcare professionals but also **[...] Read more.**
(This article belongs to the Special Issue **Frontiers in Resilience Psychology (/journal/behavsci/special_issues/Resilience_Psychology)**)

Open Access Article **(/2076-328X/12/8/271/pdf?version=1660032180)**

Breast Cancer Survivors' Motivation to Participate in a Tailored Physical and Psychological Intervention: A Qualitative Thematic Analysis (/2076-328X/12/8/271)

by **Valeria Sebri (https://sciprofiles.com/profile/1928839)**, **Ilaria Durosini (https://sciprofiles.com/profile/1407040)**, **Davide Mazzoni (https://sciprofiles.com/profile/2003112)** and **Gabriella Pravettoni (https://sciprofiles.com/profile/1723583)**
Behav. Sci. **2022**, *12*(8), 271; **https://doi.org/10.3390/bs12080271 (https://doi.org/10.3390/bs12080271)** - 07 Aug 2022
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Abstract *Purpose:* Participants' engagement in a project requires intrinsic motivations, which may evolve during the intervention thanks to lifestyle changes and positive challenges. Over the years, tailored programs based on physical activity and psychological sessions have been promoted to support the quality of life **[...] Read more.**
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Open Access Article **(/2076-328X/12/8/270/pdf?version=1659928437)**

Men's Physical Stature: Tackling Heightism and Challenges in Fashion Consumption (/2076-328X/12/8/270)

by **Osmud Rahman (https://sciprofiles.com/profile/546828)** and **Henry Delgado Navarro (https://sciprofiles.com/profile/2372146)**
Behav. Sci. **2022**, *12*(8), 270; **https://doi.org/10.3390/bs12080270 (https://doi.org/10.3390/bs12080270)** - 05 Aug 2022
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Abstract In light of the limitations of previous research on fashion consumption by short men, the present study was undertaken to examine the relationship between male body image, height perceptions, clothing choice, garment fit, and heightism. In this study, 3D body scanning technology and **[...] Read more.**
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Open Access Article **(/2076-328X/12/8/269/pdf?version=1659703352)**

Building Information Modeling Learning Behavior of AEC Undergraduate Students in China (/2076-328X/12/8/269)

by **Panyu Peng (https://sciprofiles.com/profile/2380116)**, **Yibin Ao (https://sciprofiles.com/profile/233202)**, **Mingyang Li (https://sciprofiles.com/profile/author/amJLdTRxTFJ1ZFNQNXZtcm1GOTk5WmdqbmREWDRvQjQvN05TbFdaVXlzND0=)**, **Yan Wang (https://sciprofiles.com/profile/2221562)**, **Tong Wang (https://sciprofiles.com/profile/1701685)** and **Homa Bahmani (https://sciprofiles.com/profile/1564416)**
Behav. Sci. **2022**, *12*(8), 269; **https://doi.org/10.3390/bs12080269 (https://doi.org/10.3390/bs12080269)** - 05 Aug 2022
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Abstract With the popularization and application of Building Information Modeling (BIM), the demand for BIM technical talents in the construction industry is increasing. Exploring college students' BIM technical learning behavior is of great practical significance to improve education activities. Based on the Unified Theory **[...] Read more.**
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Open Access Article **(/2076-328X/12/8/268/pdf?version=1659667862)**

Identifying Factors Influencing Productivity of Older Workers in Service Sector: A Case Study in Pilot Companies in Thailand (/2076-328X/12/8/268)

by **Chonticha Asavanirandorn (https://sciprofiles.com/profile/2366915)**, **Watchara Pechdin (https://sciprofiles.com/profile/2093769)** and **Nguyen Thi Quynh Trang (https://sciprofiles.com/profile/2357591)**
Behav. Sci. **2022**, *12*(8), 268; **https://doi.org/10.3390/bs12080268 (https://doi.org/10.3390/bs12080268)** - 04 Aug 2022
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Abstract Productivity has posed issues for global countries in terms of promoting older employment due to an emergence of questions regarding production efficiency. Individual characteristics result in varying production efficiencies, which in turn provide different levels of productivity. Taking this concern into account, we **[...] Read more.**
(This article belongs to the Special Issue **Personality, Individual Differences and Psychological Health at Work (/journal/behavsci/special_issues/at_work)**)

Open Access Review **(/2076-328X/12/8/267/pdf?version=1659595104)**

Examining Predictors of Different ABA Treatments: A Systematic Review (/2076-328X/12/8/267)

by **Mariangela Cerasuolo (https://sciprofiles.com/profile/2147055)**, **Roberta Simeoli (https://sciprofiles.com/profile/2316629)**, **Raffaele Nappo (https://sciprofiles.com/profile/author/TkxmWmxoQXNOQ3RCeHNnT3k5V1Jzc000VHhGT1FmZDBUUlZlNmEreWFKaz0=)**, **Maria Gallucci (https://sciprofiles.com/profile/author/R1plb1EwZFg1K3MrV212eUN6Z2hCemdmSVhlMjF6N1k3ZUpvc1M3L3VlST0=)**, **Luigi Iovino (https://sciprofiles.com/profile/author/Lzh1R3JmWlhTRnlwbmpsS0l0VDVUSFluemFYaEpaeEhqWjhYZE1Na01Faz0=)**, **Alessandro Frolli (https://sciprofiles.com/profile/1098224)** and **Angelo Rega (https://sciprofiles.com/profile/1899462)**
Behav. Sci. **2022**, *12*(8), 267; **https://doi.org/10.3390/bs12080267 (https://doi.org/10.3390/bs12080267)** - 04 Aug 2022
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Abstract In the recent literature, there is a broad consensus on the effectiveness of Applied Behavior Analysis interventions for autism spectrum disorder (ASD). Despite their proven efficacy, research in clinical settings shows that these treatments are not equally effective for all children and the **[...] Read more.**
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Open Access Article **(/2076-328X/12/8/266/pdf?version=1660531913)**

Leading for Innovation: Self-Efficacy and Work Engagement as Sequential Mediation Relating Ethical Leadership and Innovative Work Behavior (/2076-328X/12/8/266)

by Rachadatip Uppathampracha (https://sciprofiles.com/profile/2151706) and Guoxin Liu (https://sciprofiles.com/profile/1015224)
Behav. Sci. **2022**, *12*(8), 266; https://doi.org/10.3390/bs12080266 (https://doi.org/10.3390/bs12080266) - 02 Aug 2022
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Abstract This research investigated the link between ethical leadership and innovative work behavior by examining the role of self-efficacy as a mediating factor and the sequential mediation of self-efficacy and work engagement. Using a survey approach, data were collected from 441 bank employees in **[...] Read more.**
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Open Access Review (/2076-328X/12/8/265/pdf?version=1659365442)

Smoking Cessation Apps for People with Schizophrenia: How Feasible Are m-Health Approaches? (/2076-328X/12/8/265)

by Chelsea Sawyer (https://sciprofiles.com/profile/2239934), Lamiece Hassan (https://sciprofiles.com/profile/2376963), Daniel Guinart (https://sciprofiles.com/profile/author/bHFuTFM0a2MrNzFyemZOcUZtYWhxdWFVUXdqYlVCd3l6OW1CV2lrMklGdz0=), Luis Martinez Agulleiro (https://sciprofiles.com/profile/2366499) and Joseph Firth (https://sciprofiles.com/profile/1330138)
Behav. Sci. **2022**, *12*(8), 265; https://doi.org/10.3390/bs12080265 (https://doi.org/10.3390/bs12080265) - 01 Aug 2022
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Abstract **Background:** The large health disparities among those diagnosed with schizophrenia urgently need to be addressed. These disparities are partially caused by adverse health behaviours such as smoking. Smoking cessation apps vary in efficacy across various populations, and there are concerns regarding the accessibility **[...] Read more.**
(This article belongs to the Special Issue **Health Behaviors and Outcomes across the Schizophrenia-Spectrum (/journal/behavsci/special_issues/schizophrenia_behav)**)

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Measuring Learner Satisfaction of an Adaptive Learning System (/2076-328X/12/8/264)

by Lyndon Lim (https://sciprofiles.com/profile/1666885), Seo Hong Lim (https://sciprofiles.com/profile/author/K3hXckdNU1Y0cWp3ZlRJVFMyRWtyTEZYcTFSaWhsNjRCR0RaUFhKSDRKaz0=) and Rebekah Wei Ying Lim (https://sciprofiles.com/profile/2679398)
Behav. Sci. **2022**, *12*(8), 264; https://doi.org/10.3390/bs12080264 (https://doi.org/10.3390/bs12080264) - 30 Jul 2022
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Abstract Tertiary educational institutions have continually implemented various educational technologies to support student learning. An example is adaptive learning systems, within which learners take ownership of their learning experience and accelerate future learning. Despite the importance of considering learner satisfaction in the development of **[...] Read more.**
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The Use of Repetitive Transcranial Magnetic Stimulations for the Treatment of Bipolar Disorder: A Scoping Review (/2076-328X/12/8/263)

by Medard Kofi Adu (https://sciprofiles.com/profile/1690233), Ejemai Eboreime (https://sciprofiles.com/profile/1253189), Adegboyega Oyekunbi Sapara (https://sciprofiles.com/profile/author/WkROUmx1blpuZEQ0MldPQTBGYWNHMkttL2RscUc5aHZHU2RuZVdSRS9TND0=) and Vincent Israel Opoku Agyapong (https://sciprofiles.com/profile/2028371)
Behav. Sci. **2022**, *12*(8), 263; https://doi.org/10.3390/bs12080263 (https://doi.org/10.3390/bs12080263) - 30 Jul 2022
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Abstract Repetitive transcranial magnetic stimulation (rTMS) is a noninvasive neuromodulation technique that involves the application of magnetic pulses on hyperactive or hypoactive cortical brain areas. rTMS is considered a high therapeutic tool in many neuropsychiatric conditions. Despite its wide and continuous usage for the **[...] Read more.**

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Anxiety and Depression: What Do We Know of Neuropeptides? (/2076-328X/12/8/262)

by Ida Kupcova (https://sciprofiles.com/profile/2266594), Lubos Danisovic (https://sciprofiles.com/profile/190349), Ivan Grgac (https://sciprofiles.com/profile/author/Y250a0JIa2lMUG1rNzRJLzlFSDNyeVltMDNDQlBnU2FRS2U0YVR3UUhnND0=) and Stefan Harsanyi (https://sciprofiles.com/profile/692863)
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Abstract In modern society, there has been a rising trend of depression and anxiety. This trend heavily impacts the population's mental health and thus

contributes significantly to morbidity and, in the worst case, to suicides. Modern medicine, with many antidepressants and anxiolytics at hand, **[...] Read more.**
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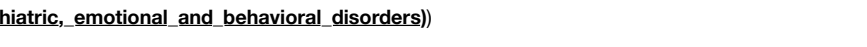

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Teachers' Mental Health and Their Involvement in Educational Inclusion (/2076-328X/12/8/261)

by Silvia Salinas-Falquez (https://sciprofiles.com/profile/author/K0dSTlk2VlkzRG15SVliSm1lVUJQQjNzb2xRWTUzN0FKcHdheWVmQTBkRT0=), Carlos Roman-Lorente (https://sciprofiles.com/profile/author/K2FhRjNxOW96dTZYbmd5WG4vU0g3T24vOGx0Z1RHY1lUUlFQL0hkcXk3bz0=), Mirela Buzica (https://sciprofiles.com/profile/2348762), Joaquín Álvarez (https://sciprofiles.com/profile/918931), Nieves Gutiérrez (https://sciprofiles.com/profile/1923175) and Rubén Trigueros (https://sciprofiles.com/profile/743469)
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Abstract Teaching is one of the most stressful work contexts, psychologically affecting professionals. The objective of this study is to analyse the effect of the frustration of NPB basic psychological needs, resilience, emotional intelligence and inclusion from the perspective of teachers in the time **[...] Read more.**
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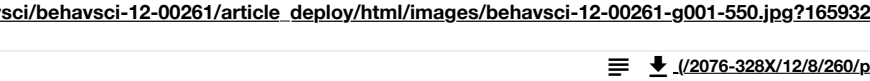

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The Contribution of Cognitive Factors to Compulsive Buying Behaviour: Insights from Shopping Habit Changes during the COVID-19 Pandemic (/2076-328X/12/8/260)

by Raffaella Nori (https://sciprofiles.com/profile/1190742), Micaela Maria Zucchelli (https://sciprofiles.com/profile/2471496), Laura Piccardi (https://sciprofiles.com/profile/797139), Massimiliano Palmiero (https://sciprofiles.com/profile/955871), Alessia Bocchi (https://sciprofiles.com/profile/1316237) and Paola Guariglia (https://sciprofiles.com/profile/author/OGt2QUQrbzJkKzJ5RUdOZUVWZlJualoydCt6b29YVXVaL0R5c3VYTXVZZz0=)
Behav. Sci. **2022**, *12*(8), 260; https://doi.org/10.3390/bs12080260 (https://doi.org/10.3390/bs12080260) - 29 Jul 2022
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Abstract The last decade has seen an increase in compulsive behaviours among young adults worldwide, particularly in 2020, during restrictions due to the COVID-19 pandemic. Importantly, even if shopping is an ordinary activity in everyday life, it can become a compulsive behaviour for certain **[...] Read more.**
(This article belongs to the Section **Psychiatric, Emotional and Behavioral Disorders (/journal/behavsci/sections/psychiatric,_emotional_and_behavioral_disorders)**)

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Validation of the Mental Health Literacy Scale in French University Students (/2076-328X/12/8/259)

by Ilaria Montagni (https://sciprofiles.com/profile/2293037) and Juan Luis González Caballero (https://sciprofiles.com/profile/1170857)
Behav. Sci. **2022**, *12*(8), 259; https://doi.org/10.3390/bs12080259 (https://doi.org/10.3390/bs12080259) - 28 Jul 2022
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Abstract Background: Mental health literacy is a determinant of mental health, which can facilitate early detection of psychological problems and endorse timely access to care. Instruments to measure mental health literacy exist, but not in French. Assessment of mental health literacy in young adults **[...] Read more.**
(This article belongs to the Special Issue **Understanding Youth Knowledge, Behaviors and Conditions concerning Mental Health (/journal/behavsci/special_issues/4C973A5Y64)**)

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"Returning to Ordinary Citizenship": A Qualitative Study of Chinese PWUD's Self-Management Strategies and Disengagement Model of Identity (/2076-328X/12/8/258)

by Apei Song (https://sciprofiles.com/profile/2187868) and Zixi Liu (https://sciprofiles.com/profile/2163789)
Behav. Sci. **2022**, *12*(8), 258; https://doi.org/10.3390/bs12080258 (https://doi.org/10.3390/bs12080258) - 28 Jul 2022
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Abstract How PWUD (people who use drugs) live under drug governance is an important research question. This study adopts a qualitative research method to explore how PWUD in China self-manage after perceiving the dilemma of incomplete citizenship and the social pressure brought by drug **[...] Read more.**

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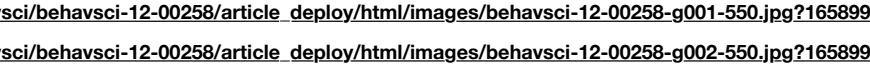

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Development of a Scale for COVID-19 Stigma and Its Psychometric Properties: A Study among Pregnant Japanese Women (/2076-328X/12/8/257)

by Toshinori Kitamura (https://sciprofiles.com/profile/284473), Asami Matsunaga (https://sciprofiles.com/profile/2327421), Ayako Hada (https://sciprofiles.com/profile/1720579), Yukiko Ohashi (https://sciprofiles.com/profile/182677) and Satoru Takeda (https://sciprofiles.com/profile/2350778)

Behav. Sci. **2022**, *12*(8), 257; https://doi.org/10.3390/bs12080257 (https://doi.org/10.3390/bs12080257) - 27 Jul 2022

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Abstract Background: Stigma towards COVID-19 may negatively impact people who suffer from it and those supporting and treating them. Objective: To develop and validate a scale to assess 11-item COVID-19–related stigma. Methods: A total of 696 pregnant women at a gestational age of 12 **[...] Read more.**

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Characteristics Associated with Good Self-Perceived Mental Health among United States Adults with Arthritis (/2076-328X/12/8/256)

by Nouf Bin Awad (https://sciprofiles.com/profile/1829997) and David R. Axon (https://sciprofiles.com/profile/341316)

Behav. Sci. **2022**, *12*(8), 256; https://doi.org/10.3390/bs12080256 (https://doi.org/10.3390/bs12080256) - 27 Jul 2022

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Abstract Mental health disorders are prevalent among United States (US) adults with arthritis. Yet, little is known about characteristics associated with mental health among US adults with arthritis. This retrospective cross-sectional study used 2019 Medical Expenditures Panel Survey data to assess the association between **[...] Read more.**

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Body Image Concerns: The Impact of Digital Technologies and Psychopathological Risks in a Normative Sample of Adolescents (/2076-328X/12/8/255)

by Martina Mesce (https://sciprofiles.com/profile/2331301), Luca Cerniglia (https://sciprofiles.com/profile/234509) and Silvia Cimino (https://sciprofiles.com/profile/617519)

Behav. Sci. **2022**, *12*(8), 255; https://doi.org/10.3390/bs12080255 (https://doi.org/10.3390/bs12080255) - 27 Jul 2022

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Abstract Background and Objectives: Previous research on associations between Body Image Concerns (BIC) and technological addictions, such as Internet addiction (IA) and Social Media Addiction (SMA), has focused on female samples, neglecting the impact they may have on males and the risk factor associated **[...] Read more.**

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The Role of Phonological Awareness, Pinyin Letter Knowledge, and Visual Perception Skills in Kindergarteners' Chinese Character Reading (/2076-328X/12/8/254)

by Han Yuan (https://sciprofiles.com/profile/2302058), Eliane Segers (https://sciprofiles.com/profile/author/dFRpdVNvNEo0TC9OVFN4R1o2S1pnK3hGcnU3TWtMYjJMVGt6STBTcDIzZz0=) and Ludo Verhoeven (https://sciprofiles.com/profile/author/N3RheXR1SWE2dloyVUlyd0N5Q0dxVkNhRDVFdkVCQThZSlNYTks3STBHTT0=)

Behav. Sci. **2022**, *12*(8), 254; https://doi.org/10.3390/bs12080254 (https://doi.org/10.3390/bs12080254) - 27 Jul 2022

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Abstract Word identification models assume that words are identified by at least two sources of information and analysis; one is phonological, and the other is visual. The present study investigated the influence of phonological awareness, Pinyin letter knowledge, and visual perception skills on Chinese **[...] Read more.**

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Open Access Article (/2076-328X/12/8/253/pdf?version=1659085936)

Social Connectedness in Schizotypy: The Role of Cognitive and Affective Empathy (/2076-328X/12/8/253)

by Jessica Stinson (https://sciprofiles.com/profile/2252032), Rebecca Wolfe (https://sciprofiles.com/profile/2263384) and Will Spaulding (https://sciprofiles.com/profile/author/OG54NE8wbmxXdlNZSVRtYVBVVzFZWkZWSWtJOW4vNjdFc0lLOFd1VGNCST0=)

Behav. Sci. **2022**, *12*(8), 253; https://doi.org/10.3390/bs12080253 (https://doi.org/10.3390/bs12080253) - 26 Jul 2022

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Abstract Social connectedness is increasingly understood to be a resilience factor that moderates vulnerability to poor physical and mental health. This study examines cognitive and affective processes that support normal socialization and social connectedness, and the impact of schizotypy, in well-functioning college students. In **[...] Read more.**

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Open Access Article **(/2076-328X/12/8/252/pdf?version=1659317218)**

Institutional Trust as a Protective Factor during the COVID-19 Pandemic in China (/2076-328X/12/8/252)

by **Shuangshuang Li (https://sciprofiles.com/profile/2235218)**,
Yijia Sun (https://sciprofiles.com/profile/author/NjJkZ0trVi9WbEF4NU9mNkJhWThielYvTlJWMnFKNWR0K3pmUC93L2hCZz0=),
Jiaqi Jing (https://sciprofiles.com/profile/author/TkcxSitxcStnbE12bnNKZ2dQTiswSXJEWTEraGxxdUpsU1BHY2ZqdEZaRT0=) and
Enna Wang (https://sciprofiles.com/profile/1464706)
Behav. Sci. **2022**, *12*(8), 252; **https://doi.org/10.3390/bs12080252 (https://doi.org/10.3390/bs12080252)** - 25 Jul 2022
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Abstract Previous research has demonstrated that institutional trust protects subjective well-being during pandemics. However, the potential mediation mechanisms underlying this linkage remain unclear. This study constructs a mediating model to investigate the effect of institutional trust on subjective well-being and the mediating roles of **[...] Read more.**
(This article belongs to the Special Issue **Preventive Behaviors toward COVID-19: Antecedents, Compliance, and Psychological Impact (/journal/behavsci/special_issues/Preventive_Behavior)**)

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Open Access Article **(/2076-328X/12/8/251/pdf?version=1659093733)**

Boredom Proneness and Rule-Breaking: A Persistent Relation One Year into the COVID-19 Pandemic (/2076-328X/12/8/251)

by **Allison C. Drody (https://sciprofiles.com/profile/2292182)**,
Lydia J. Hicks (https://sciprofiles.com/profile/author/WTVuZ0k1VngzUk1yOGZjeU00QjRwK2o1WlFlSjdjekxPUVlXdnltam1lOD0=) and
James Danckert (https://sciprofiles.com/profile/51118)
Behav. Sci. **2022**, *12*(8), 251; **https://doi.org/10.3390/bs12080251 (https://doi.org/10.3390/bs12080251)** - 24 Jul 2022
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Abstract Research conducted within the first year of the pandemic demonstrated that boredom prone individuals were more likely to break rules (e.g., social distancing) aimed at preventing the spread of COVID-19. It is of interest whether this relation persisted deeper into the pandemic, given **[...] Read more.**
(This article belongs to the Special Issue **Boredom in the COVID-19 Pandemic (/journal/behavsci/special_issues/boredom)**)

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Investigating the Relationship between Facial Mimicry and Empathy (/2076-328X/12/8/250)

by **Yevgeniya Kovalchuk (https://sciprofiles.com/profile/2239771)**, **Elizabeta Budini (https://sciprofiles.com/profile/2342608)**,
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Behav. Sci. **2022**, *12*(8), 250; **https://doi.org/10.3390/bs12080250 (https://doi.org/10.3390/bs12080250)** - 24 Jul 2022
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Abstract Facial expressions play a key role in interpersonal communication when it comes to negotiating our emotions and intentions, as well as interpreting those of others. Research has shown that we can connect to other people better when we exhibit signs of empathy and **[...] Read more.**
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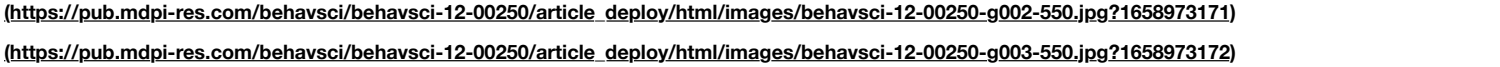
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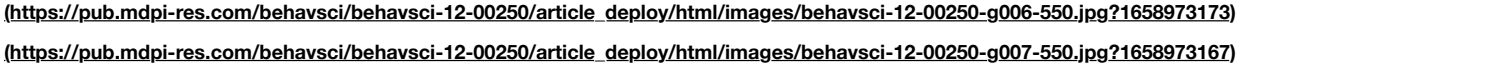
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Hang-Yi Chen (https://sciprofiles.com/profile/2254833)
Behav. Sci. **2022**, *12*(8), 249; https://doi.org/10.3390/bs12080249 (https://doi.org/10.3390/bs12080249) - 23 Jul 2022
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Abstract The New York State (NYS) Office of Mental Health created the NYS COVID-19 Emotional Support Helpline and enlisted graduate students to provide phone-based emotional support initially to the NYS community. This NYS-funded initiative transformed into providing psychosocial support for callers across the United **[...] Read more.**
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Defense-Oriented Psychoanalytic Psychotherapy as a Tailored Treatment for Boys: Neurobiological Underpinnings to Male-Specific Response Tested in Regulation-Focused Psychotherapy for Children (/2076-328X/12/8/248)

by Timothy Rice (https://sciprofiles.com/profile/2173147),
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Behav. Sci. **2022**, *12*(8), 248; https://doi.org/10.3390/bs12080248 (https://doi.org/10.3390/bs12080248) - 22 Jul 2022
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Abstract This paper presents defense-oriented psychoanalytic psychotherapy as a tailored treatment for boys through a neurophysiological hypothesis. Male central nervous system development is reviewed, with a focus on the development of the emotion regulation system. The organizational effects of pre- and post-natal androgens delay **[...] Read more.**
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The Schizotypal Ambivalence Scale: An Item Response Theory Analysis (/2076-328X/12/8/247)

by Lauren B. Deters (https://sciprofiles.com/profile/author/Q2NKa3lrQVlBeXlaQStZemhFTmEzMVZkOXQ5NlBDR0JGbnZBTEpKbWZyND0=),
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Abstract Ambivalence has a prominent role in the historical formulations of schizotypy and schizophrenia, as well as borderline personality disorder. However, it has been overlooked by our current diagnostic nomenclature. The Schizotypal Ambivalence Scale (SAS) is a 19-item self-report scale developed to examine ambivalence **[...] Read more.**
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Changes in Gait Self-Efficacy, Fear of Falls, and Gait Four and Eight Months after Bariatric Surgery (/2076-328X/12/8/246)

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Behav. Sci. **2022**, *12*(8), 246; https://doi.org/10.3390/bs12080246 (https://doi.org/10.3390/bs12080246) - 22 Jul 2022
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Abstract After bariatric surgery, individuals improve walking characteristics related to fall risk. However, little is known about psychosocial factors, such as

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Personality, Intervention and Psychological Treatment: Untangling and Explaining New Horizons and Perspectives (/2076-328X/12/8/245)

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Behav. Sci. **2022**, *12*(8), 245; **https://doi.org/10.3390/bs12080245 (https://doi.org/10.3390/bs12080245)** - 22 Jul 2022
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Abstract Personality—as a construct—is involved in both health and disease [...] **Full article (/2076-328X/12/8/245)**
(This article belongs to the Special Issue **Personality, Intervention and Psychological Treatment (/journal/behavsci/special_issues/P_P)**)

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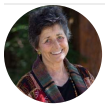

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Article

Resilience among Malaysian Community Pharmacists and General Medical Practitioners Using the 10-Item Connor-Davidson Resilience Scale (CD-RISC): The First National Survey

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Abstract: With the growing importance of the healthcare sector, resilience has become a fundamental personal quality that healthcare professionals need to cultivate to cope with adverse events in daily work. Distress in the workplace cannot only impact the well-being of healthcare professionals but also negatively affect the capability to care effectively for others. This study was conducted to determine the score and level of resilience among private primary healthcare professionals and their relationships with independent variables. Sets of questionnaires on resilience based on the Connor–Davidson resilience scale-10 (CD-RISC-10) were completed by 164 general practitioners (GPs) and 87 community pharmacists (CPs). Inferential analysis was used to assess the difference, correlation, association, and predictor among dependent and independent variables. The validity and reliability of the study instrument were assessed using Modern Test Theory (MTT) and Classical Test Theory (CTT). The majority of GPs and CPs possessed the lowest resilience level. There were significant differences between CD-RISC-10 with gender, age, and years of experience in GPs as well as overall. Significant associations were found between CD-RISC-10 with all independent variables, except for the highest education level in GPs and overall. This study revealed significant correlations between independent variables with CD-RISC-10 in GPs and overall. However, there were nonsignificant differences, associations, and correlations among CPs between all independent variables and CD-RISC-10. Gender was the predictor of CD-RISC-10 in GPs, while age and years of experience were the predictors of CD-RISC-10 in GPs and overall. There was no predictor of independent variables for CPs. In multinomial logistics regression, years of experience and gender were the significant predictors of CD-RISC-10 among GPs. The CD-RISC-10 instrument had good validity and reliability. Overall, healthcare professionals showed a low level of resilience. This emphasized the need to cultivate and build resilience, as it is a desirable, important element when working in harsh and unprecedented healthcare settings.

Keywords: resilience; general practitioner; community pharmacist; private primary healthcare

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1. Introduction

Resilience is one characteristic that allows an individual to thrive in encountering difficulties [1]. Resilience is the ability of an individual to adapt him or herself positively to adversity [2]. Another study described resilience as the ability to lessen the consequences of stress and bounce back from an adverse event [3]. It may be added that resilience is the ability to surmount and learn challenges in life, and challenges undeniably make

people grow and become stronger. Needless to say, this ability plays a role in determining people's responses when facing changes in life [4]. Resilience is also defined as the ability to maintain personal and professional well-being in the face of ongoing work stress and adversity [5]. Emotional resilience refers to a person's capability to retain a sense of motive, equilibrium, and positive physical and mental health [6].

Professional resilience is the ability of a person to respond to high-stress and demanding circumstances, and the choice is made under such conditions. Professional resilience characteristics include confidence, adaptability, emotional intelligence, optimism, playfulness, and compassion. For confidence, individuals are willing to face appropriate risks and can reject when necessary. For adaptability, the harsh onslaught of the mission and information can be handled mentally and emotionally by an individual with flexibility. For emotional intelligence, individuals are mastered to deal with their emotion when relating to others by being responsive, not reactive. For optimistic individuals, they understand that more difficulty often brings more success. For playfulness, individuals always find an interesting part when facing the problem and are not scared of making mistakes. For compassion, individuals can understand the feeling of others and practice self-compassion [7].

Stressors, such as time pressures, workloads, numerous roles, and emotional issues, are highly related to the health and helping professions [8,9]. Environmental stress in the working area can not only affect the physical and mental health of health professionals, but it can also cause burnout and, in a few instances, traumatic stress-like symptoms [10]. These negative stress results affect the welfare of health professionals as well as their capability to attend effectively to their clients. In order to decrease the negative and promote positive effects of stress in health professions, developing resilient environments and supportive people in the health profession itself is vital, besides having a preventive strategy [11]. With the intention to enhance resilience in health professionals, the researchers suggested that the idea of resilience has to be incorporated into all training programs. Health professionals should be given time to reflect and learn from others who can share their experiences in facing difficult resilience in the workplace. Their seniors or experts could show their selflessness by sharing lessons from experiences and guiding and encouraging others [12].

Research has shown that commitment does not influence burnout cases [13]. However, resilience was related to the influences of people and contextual factors such as gender, relaxation, exercise [14], work–life balance [15], validation, value, partner or colleague support, client connection [16], skill match, self-reflection [17], and organizational problem solving [18]. To our knowledge, no research has been conducted on the resilience and factors associated among Malaysian GPs and CPs in private primary healthcare settings, including clinics and community pharmacies. Therefore, this preliminary research aimed to assess the score and level of resilience and to determine the difference, association, correlation, and predictor among the studied independent variables with resilience.

2. Methods

2.1. Study Design, Setting, and Sampling

This was a cross-sectional study conducted among Malaysian registered CPs with Pharmacy Board Malaysia and registered GPs with Malaysian Medical Council, working in the private primary healthcare sector comprising community pharmacies and private primary clinics, respectively. Data were collected in the period of pre-pandemic COVID-19. The purposive sampling method was used in this study. The confidence interval was taken as 95%, 5% marginal error, and 50% response distribution; the minimum recommended sample size of this study, calculated using Raosoft® (Seattle, WA, USA), for GPs was 164 and CPs was 87; in total, there were 251 respondents. Considering a 10% non-response and non-eligible rate, this study aimed to approach, at least altogether, 276 respondents.

2.2. Study Tool

A self-administered questionnaire consisting of 16 items with two sections in the English language was used in this study. Section A was comprised of socio-demographic

data, which included gender, age, ethnicity, profession, highest education level, and the number of years of professional experience. Section B was about resilience, which was assessed using a 10-item Connor–Davidson resilience scale (CD-RISC-10). The response to each item was scored on a five-point Likert scale, ranging from 0 (not true at all), 1 (rarely true), 2 (sometimes true), 3 (often true), and 4 (true nearly all the time). The total score ranged from 0–40 [19].

2.3. Questionnaire Administration

Respondents were given an information leaflet outlining the study and its objectives. Consent was obtained from those interested in participating and those that met the study criteria. Respondents took an average of 10 min to complete the questionnaires received directly from the researcher. They submitted the questionnaires to the researcher once they were finished, who then double-checked the answers for completeness. Only one investigator was trained and involved in the study procedures before the conduct of the study to minimize variability in the data collection method.

2.4. Statistical Analysis

Appropriate statistical tests were used to analyze the obtained data using the Statistical Package for Social Science® (SPSS®) (New York, NY, USA) version 20. The quantitative variables, including the socio-demographic profiles of the participants, were described as mean, standard deviation (±SD), minimum, maximum, percentage, median, and interquartile range (IQR) where applicable. To assess the item analysis, basic descriptive statistics such as mean, ±SD, frequency (*n*), and percentage of responses of each item were examined. The data were analyzed separately for CPs, GPs, and overall respondents to identify the parameters that were influenced by the type of profession using descriptive and inferential statistical analysis. For GPs and overall, the data were non-parametric, so Mann–Whitney and Kruskal–Wallis tests and Spearman's correlation were used. For CPs, the data were parametric, so an independent *t*-test, ANOVA, and Pearson correlation were used. A chi-square test, multiple linear regression, and multinomial logistic regression were also performed.

2.5. Reliability and Validity of CD-RISC-10

For modern test theory (MTT), the Rasch model was used. In Rasch analysis, reliability < 0.67 shows poor reliability and >0.8 shows good reliability [20]. The separation value index of >2 is considered good [21]. For construct validity, the mean square (MNSQ) falls between the range 0.5 and 1.5. Point-measure correlation (PtMea Corr.) is found within 0.4 and 0.8, and the Z-Standard (ZStd) is within −2 and +2 [22]. If the parameters fall outside of all the ranges, the item could be considered to be removed.

For classical test theory (CTT), reliability was determined by Cronbach's α, with a value of <0.5 indicating unacceptable, $0.5 \leq \alpha < 0.6$ indicating poor or moderate, $0.6 \leq \alpha < 0.7$ indicating acceptable, $0.7 \leq \alpha < 0.9$ indicating good, and $\alpha \geq 0.9$ indicating excellent reliability [23,24]. Factor analysis was carried out for construct validity.

2.6. Ethical Consideration

This study was carried out in accordance with the ethics approval obtained from the Research Ethics Committee (REC), Research Management Centre (RMC), MAHSA University. Participant-informed written signed consent was obtained prior to the study, and the respondents were guaranteed confidentiality.

3. Results

A total of 286 questionnaires were distributed. Only 251 questionnaires were completed and returned. The remaining 35 respondents refused to participate in this study. The rejection majority was due to time constraints, and only 1 GP was not interested in the

research topic. The response rate was 87.76% (251/286); however, it achieved the targeted study sample size.

3.1. Characteristics of the Study Population

Table 1 shows the socio-demographic profiles of respondents. Among 164 GPs, 103 were male and 61 were female, while for CPs, 32 were male and 55 were female. The age for GPs ranged from 27 to 79 years old, with a mean (±SD) age of 45 (±12.71). On the other hand, the age for CPs ranged from 25 to 58, with a mean (±SD) age of 35 (±9.08). For ethnicity, 23.50% of GPs were Malay, 33.07% of GPs were Chinese, and 8.76% of GPs were Indian. In contrast to GPs, 9.16% of CPs were Malay, 24.70% of CPs were Chinese, and 0.80% of CPs were Indian. For the highest education level, out of 164 GPs, 146 were degree holders, 15 were master holders, and only 3 were PhD holders. Out of 87 CPs, 83 were degree holders, and the rest were master holders. The number of years of professional experience for GPs ranged from 2 to 53 years, with a mean (±SD) in years of 18.48 (±11.94), while for CPs it ranged from 1 to 33 years with a mean (±SD) in years of 10.52 (±8.37). There were 59 GPs that worked for 1 to 10 years, 38 GPs that worked for 11 to 20 years, and 67 that worked for ≥21 years. On the contrary, 56 CPs worked for 1 to 10 years, 17 worked for 11 to 20 years, and 14 worked for ≥21 years.

Table 1. Socio-demographic characteristics of study respondents.

Items	General Practitioner (GP)	Community Pharmacist (CP)	Overall (O) *n* = 251 (100)
	n (%)	*n* (%)	*n* (%)
Gender			
Male	103 (41.04)	32 (12.75)	135 (53.80)
Female	61 (24.30)	55 (21.91)	116 (46.20)
Age (years old)			
Mean (±) SD	45.00 ± 12.71	35.00 ± 9.08	42.00 ± 12.49
Range			
Min	27	25	25
Max	79	58	79
Ethnicity			
Malay	59 (23.50)	23 (9.16)	82 (32.70)
Chinese	83 (33.07)	62 (24.70)	145 (57.80)
Indian	22 (8.76)	2 (0.80)	24 (9.60)
Others			
Profession	164 (65.34)	87 (34.66)	251 (100)
Highest education level			
Degree	146 (58.17)	83 (33.07)	229 (91.20)
Master	15 (5.98)	4 (1.59)	19 (7.60)
PhD	3 (1.20)	-	3 (1.20)
Number of years of experience (years)			
Mean (±) SD	18.48 ± 11.94	10.52 ± 8.37	15.70 ± 11.47
Range			
Min	2	1	1
Max	53	33	53
1–10	59 (23.51)	56 (22.31)	115 (45.80)
11–20	38 (15.14)	17 (6.77)	55 (21.90)
≥21	67 (26.69)	14 (5.58)	81 (32.30)

3.2. Overall Scores and Level of CD-RISC-10

Based on Table 2, the mean (±SD) CD-RISC-10 score for CPs was 28.20 (±6.12), which was slightly lower than GPs (30.93 (±6.25)). The minimum CD-RISC-10 scores for GPs and CPs were 17 and 12, respectively. Both GPs' and CPs' maximum CD-RISC-10 scores were 40. The total score for CD-RISC-10 can be classified into 4 categories: lowest (0–29), low (30–32), moderate (33–36), and highest (37–40). Only 41 GPs and 8 CPs showed the highest

level of CD-RISC-10. Table 3 describes the distribution of respondents' rating distribution, assessed using the Connor–Davidson resilience scale-10 on a 5-point Likert scale.

Table 2. Overall scores of CD-RISC-10 (n = 251).

	GP	CP	O
	n **(%)**	***n*** **(%)**	***n*** **(%)**
CD-RISC-10			
Mean ± SD	30.93 ± 6.25	28.20 ± 6.12	29.98 ± 6.33
Median (IQR)	30 (11)	29 (8)	30 (9)
Min	17	12	12
Max	40	40	40
CD-RISC-10 categories			
Lowest (0–29)	68 (27.09)	49 (19.52)	117 (46.60)
Low (30–32)	32 (12.75)	16 (6.37)	48 (19.10)
Moderate (33–26)	23 (9.16)	14 (5.58)	37 (14.70)
Highest (37–40)	41 (16.33)	8 (3.19)	49 (19.50)

Table 3. Rating distribution was assessed using the Connor–Davidson resilience scale-10 (n = 251).

	Statement		Not True at All	Rarely True	Sometimes True	Often True	True Nearly All the Time	Mean ± SD
			(0)	**(1)**	**(2)**	**(3)**	**(4)**	
			n **(%)**	***n*** **(%)**	***n*** **(%)**	***n*** **(%)**	***n*** **(%)**	
1.	I can stay focused even when under pressure.	GP	1 (0.40)	6 (2.39)	32 (12.75)	79 (31.47)	46 (18.33)	2.99 ± 0.83
		CP	3 (1.20)	4 (1.59)	23 (9.16)	42 (16.73)	15 (5.98)	2.71 ± 0.93
		O	4 (1.60)	10 (3.98)	55 (21.19)	121 (48.20)	61 (24.31)	2.90 ± 0.87
2.	I am able to adapt to any change required by the situation.	GP		1 (0.40)	26 (10.36)	75 (29.88)	62 (24.70)	3.21 ± 0.72
		CP		3 (1.20)	16 (6.37)	46 (18.33)	22 (8.76)	3.00 ± 0.76
		O		4 (1.60)	41 (16.73)	121 (48.21)	84 (33.46)	3.14 ± 0.74
3.	I can handle unpleasant feelings about work.	GP		6 (2.39)	35 (13.94)	66 (26.29)	57 (22.71)	3.06 ± 0.84
		CP	1 (0.40)	4 (1.59)	22 (8.76)	42 (16.73)	18 (7.17)	2.83 ± 0.85
		O	1 (0.40)	10 (3.98)	57 (22.70)	108 (43.02)	75 (29.88)	2.98 ± 0.85
4.	At work, I can deal with whatever comes.	GP	-	9 (3.59)	37 (14.74)	81 (32.27)	37 (14.74)	2.89 ± 0.81
		CP	1 (0.40)	7 (2.79)	24 (9.56)	39 (15.54)	16 (6.37)	2.71 ± 0.90
		O	1 (0.40)	16 (6.38)	61 (24.30)	120 (47.81)	53 (21.11)	2.83 ± 0.85
5.	I am not easily discouraged by work failure.	GP	1 (0.40)	3 (1.20)	31 (12.35)	69 (27.49)	60 (23.90)	3.12 ± 0.82
		CP		1 (0.40)	32 (12.75)	41 (16.33)	13 (5.18)	2.76 ± 0.72
		O	1 (0.40)	4 (1.60)	63 (25.10)	110 (43.82)	73 (29.08)	3.00 ± 0.80
6.	I can achieve work goals despite obstacles.	GP		2 (0.80)	41 (16.33)	72 (28.69)	49 (19.52)	3.02 ± 0.78
		CP		5 (1.99)	21 (8.37)	49 (19.52)	12 (4.78)	2.78 ± 0.75
		O		7 (2.79)	62 (24.70)	121 (48.21)	61 (24.30)	2.94 ± 0.78
7.	Even when facing work hardships, I try to see the humorous side of problems.	GP		5 (1.99)	44 (17.53)	60 (23.90)	55 (21.91)	3.01 ± 0.85
		CP		8 (3.19)	23 (9.16)	40 (15.94)	16 (6.37)	2.74 ± 0.87
		O		13 (5.18)	67 (26.69)	100 (39.84)	71 (27.56)	2.91 ± 0.87
8.	Coping with work hardships can strengthen me.	GP		4 (1.59)	15 (5.98)	78 (31.08)	67 (26.69)	3.27 ± 0.73
		CP		5 (1.99)	15 (5.98)	39 (15.54)	28 (11.16)	3.03 ± 0.86
		O		9 (3.58)	30 (11.96)	117 (46.62)	95 (37.85)	3.19 ± 0.78

Table 3. *Cont.*

	Statement		Not True at All	Rarely True	Sometimes True	Often True	True Nearly All the Time	Mean ± SD
			(0)	(1)	(2)	(3)	(4)	
			n (%)	*n* (%)	*n* (%)	*n* (%)	*n* (%)	
9.	I tend to quickly bounce back after work hardships.	GP		5 (1.99)	26 (10.36)	74 (29.48)	59 (23.51)	3.14 ± 0.79
		CP		7 (2.79)	20 (7.97)	46 (18.33)	14 (5.58)	2.77 ± 0.82
		O		12 (4.78)	46 (18.33)	120 (47.81)	73 (29.09)	3.01 ± 0.82
10.	At work, I think of myself as a strong person.	GP		3 (1.20)	18 (7.17)	84 (33.47)	59 (23.51)	3.21 ± 0.71
		CP		4 (1.59)	20 (7.97)	47 (18.73)	16 (6.37)	2.86 ± 0.77
		O		7 (2.79)	38 (15.14)	131 (52.20)	75 (29.88)	3.09 ± 0.75

3.3. Inferential Analysis

GPs showed a statistically significant difference between gender and CD-RISC-10 median scores, with $p = 0.001$. There were significant differences ($p < 0.001$) between the age categories and years of experience and CD-RISC-10. There were significant associations between CD-RISC-10 and all independent variables, except for the highest education level. Significant positive moderate correlations existed between age and years of experience with CD-RISC-10 ($p < 0.001$). The CD-RISC-10 model was significant (F (5.158) = 10.156, $p = 0.000$), with predictors explaining 24.3% of the variation in the CD-RISC-10 scoring. Gender ($\beta = -0.200$, $p = 0.009$) and age ($\beta = -1.085$, $p = 0.005$) made significant contributions with negative relationships to the model. Years of experience ($\beta = 1.439$, $p < 0.001$) made a significant contribution with a positive relationship with CD-RISC-10 scoring. For the summary multinomial logistic regression between independent variables and CD-RISC-10 score, and gender and years of experience deemed the significant predictors for CD-RISC-10, with $p = 0.006$ and $p = 0.021$, respectively (Tables 4–8).

Table 4. Comparison of CD-RISC-10 across independent variables.

Variables	Score of CD-RISC-10							
	GP		CP	O		*p* Value		
	Mean (±SD)	Median (IQR)	Mean (±SD)	Mean (±SD)	Median (IQR)	GP	CP	O
Gender								
Male	32.17 (5.97)	32.00 (9)	27.38 (7.07)	31.04 (6.55)	31.00 (10)	0.001 *[a]	0.376 [c]	0.001 *[a]
Female	28.82 (6.20)	27.00 (8)	28.67 (5.51)	28.75 (5.86)	28.00 (8)			
Age (years old)								
24–34	28.07 (5.99)	27.50 (7)	27.26 (6.58)	27.62 (6.30)	28.00 (9)	0.000 **[b]	0.078 [d]	0.000 **[b]
35–45	29.57 (5.52)	28.50 (7)	31.13 (5.46)	29.98 (5.50)	30.00 (8)			
>46	33.37 (5.91)	34.50 (8)	28.41 (4.32)	32.46 (5.96)	32.00 (8)			
Ethnicity								
Malay	30.12 (6.65)	30.00 (11)	29.13 (6.06)	29.84 (6.47)	30.00 (10)	0.340 [b]	0.744 [d]	0.925 [b]
Chinese	31.76 (6.15)	31.00 (12)	27.81 (6.10)	30.07 (6.42)	30.00 (9)			
Indian	29.95 (5.30)	30.00 (4)	29.50 (10.61)	29.92 (5.52)	30.00 (4)			
Others								
Profession	30.93 (6.25)	30.00 (11)	28.20 (6.12)	29.98 (6.33)	30.00 (9)			0.004 *[a]
Highest education level								
Degree	30.86 (6.19)	30.00 (10)	28.12 (6.18)	29.86 (6.31)	30.00 (9)	0.719 [b]	0.597 [d]	0.487 [b]
Master	31.93 (6.22)	32.00 (10)	29.75 (5.44)	31.47 (5.98)	32.00 (8)			
PhD	29.33 (11.00)	30.00 (12)		29.33 (11.0)	30.00 (12)			
Years of experience (years)								
1–10	28.00 (5.81)	27.00 (6)	27.86 (6.99)	27.93 (6.38)	28.00 (8)	0.000 **[b]	0.700 [d]	0.000 **[b]
11–20	30.47 (5.86)	30.00 (10)	29.00 (4.00)	30.02 (5.36)	30.00 (8)			
>20	33.76 (5.63)	35.00 (10)	28.57 (4.50)	32.86 (5.77)	33.00 (9)			

** $p < 0.001$, * $p < 0.05$, [a] Mann–Whitney, [b] Kruskal–Wallis, [c] Independent *t*-test, [d] ANOVA.

Table 5. Associations of independent variables with CD-RISC-10.

Variables	The Total Score of CD-RISC-10					
	X^2 (df)			*p* Value		
	GP	CP	O	GP	CP	O
Gender	13.45 (3)	2.108 (3)	10.570 (3)	0.004 *	0.550	0.014 *
Age (years old)	29.42 (6)	8.502 (6)	22.531 (6)	0.000 **	0.204	0.001 *
Ethnicity	17.03 (6)	5.699 (6)	13.221 (6)	0.009 *	0.458	0.040 *
Profession			10.168 (3)			0.017 *
Highest education level	1.55 (6)	4.211 (3)	4.090 (6)	0.956	0.240	0.665
Years of experience (years)	31.59 (6)	6.986 (6)	23.872 (6)	0.000 **	0.322	0.001 *

** $p < 0.001$, * $p < 0.05$.

Table 6. Correlations between independent variables with CD-RISC-10.

Variables	The Total Score of CD-RISC-10					
	Rho/R			*p* Value		
	GP	CP	O	GP	CP	O
Age (years old)	0.406	0.122	0.366	0.000 **	0.260	0.000 **
Years of experience (years)	0.445	0.126	0.392	0.000 **	0.244	0.000 **

** $p < 0.001$.

Table 7. Predictors of CD-RISC-10.

Variables	The Total Score of CD-RISC-10								
	B			t			*p* Value		
	GP	CP	O	GP	CP	O	GP	CP	O
Gender	−2.573	1.310	−1.181	−2.663	0.937	−1.478	0.009 *	0.352	0.141
Age (years old)	−0.534	0.046	−0.415	−2.865	0.127	−2.465	0.005 *	0.899	0.014 *
Ethnicity	0.311	−0.857	0.206	0.456	−0.595	0.329	0.649	0.554	0.742
Profession			−1.663			−1.919			0.056
Highest education level	−1.520	2.497	−0.585	−1.291	0.760	−0.518	0.199	0.450	0.605
Years of experience (years)	0.753	0.048	0.616	3.829	0.123	3.441	0.000 **	0.902	0.001 *

** $p < 0.001$, * $p < 0.05$.

Table 8. Multinomial logistic regression for CD-RISC-10.

Variables	The Total Score of CD-RISC-10					
	Exp (B)			*p* Value		
	GP	CP	O	GP	CP	O
Gender	0.35	1.05	0.59	0.006 *	0.922	0.060
Age (years old)	0.84	1.24	1.13	0.724	0.756	0.753
Ethnicity	0.88	1.04	1.20	0.638	0.927	0.417
Profession			0.86			0.600
Highest education level	0.77	2.90	1.16	0.558	0.378	0.727
Years of experience (years)	3.05	0.97	1.63	0.021 *	0.967	0.198

* $p < 0.05$.

In CPs, there was no significant difference, association, correlation, or predictor between all the independent variables with CD-RISC-10 (Tables 4–8).

Overall, there was a significant difference between gender and the CD-RISC-10 median score, with $p = 0.001$. There were significant differences between the age and years of experience categories with CD-RISC-10 ($p < 0.001$). There was a significant median score difference between CD-RISC-10 and profession with $p = 0.004$. There were significant associations between CD-RISC-10 with all independent variables except the highest education

level. There were significant positive moderate correlations between the age of respondents and years of experience with CD-RISC-10 scores ($p < 0.001$). The CD-RISC-10 model was significant (F (6, 244) = 8.536, $p = 0.000$), with predictors explaining 17.3% of the variation in the CD-RISC-10 scoring. Age ($\beta = -0.818$, $p = 0.014$) made a significant contribution with a negative relationship with CD-RISC-10 scoring. Years of experience ($\beta = 1.115$, $p = 0.001$) made a significant contribution with a positive relationship with CD-RISC-10 scoring. For the summary multinomial logistic regression between independent variables and CD-RISC-10 score, no independent variable was a significant predictor for CD-RISC-10 (Tables 4–8).

3.4. Reliability and Validity

The reliability for CD-RISC-10 using Cronbach's alpha in CTT was 0.929, indicating excellent reliability. Factor analysis was used to determine the construct validity of the instrument. KMO, which measures the degree of inter-correlation among variables for the instrument, was acceptable, which was >0.5. The Bartlett's test of sphericity was significant, indicating that the correlation matrix was sufficiently large. All factor loadings were >0.3, and CD-RISC-10 yielded into 1 factor. Both person reliability (0.88) and item reliability (0.91) in MTT were >0.8, showing good reliability. For construct validity in MTT, a few items within the instrument fell slightly outside the recommended ranges; however, they were considered to fit the Rasch instrument model as a whole.

4. Discussion

To the best of our knowledge, this was the first study evaluating the relationship of CD-RISC-10 with independent variables among Malaysian GPs and CPs practicing in private primary healthcare settings.

The mean score of CD-RISC-10 for GPs was slightly higher, and that for CPs and overall were lower than the findings reported by Lauridsen et al. (2017) [25], with a mean score of 30.3 in a sample of hospital employees. However, the Gayton and Lovell (2012) [26] study showed higher CD-RISC-10 than GPs, CPs, and overall, with a mean score of 31.2 for 3 to 5 year qualified paramedics. A study by Warren et al. (2013) [27] revealed that a group of surgeons was found to score a mean of 33.4 on the CD-RISC-10, which was higher than those of GPs, CPs, and overall. Kang et al. (2018) [28] reported an overall mean CD-RISC-10 score of 28.97 for a group of ambulance personnel, which was lower than GPs and overall but slightly higher than CPs. In the Brown et al. (2018) [29] study, which enrolled nurses as samples, the mean CD-RISC-10 score of 40.7 was more elevated than GPs, CPs, and overall in the present study. On the other hand, the mean CD-RISC-10 scores for GPs, CPs, and overall were higher than the study conducted by Aloba et al. (2016) [30] with a sample of student nurses (mean score = 27.64). It may be added that the mean CD-RISC-10 scores for GPs, CPs, and overall were also higher than the study conducted by Ang et al. (2018) [31] and Slatyer et al. (2017) [32] with a sample of nurses (mean scores = 25.9 and 28.4, respectively). For GPs and overall, males significantly had higher CD-RISC-10 than females, in agreement with Aloba et al. (2016) (30.09 vs. 27.29) [30]. However, no significant difference was found comparing mean CD-RISC-10 scores between men and women surgeons (33.6 vs. 32.7) [27]. There was no significant difference between CD-RISC-10 and ethnicity in the present study, similar to findings by Warren et al. (2013) [27], which stated that white and non-white surgeons did not differ in their CD-RISC-10 scores (33.4 vs. 33.6).

The present study showed no association between CD-RISC-10 and the highest education level, which differed from Ang et al. (2018) [31]. There were associations between CD-RISC-10 and gender in GPs and overall results but not in CPs. The results in the present study differed from the findings reported by Ang et al. (2018) [31], which showed no association between CD-RISC-10 and gender. However, the present study for GPs and overall and the Ang et al. study (2018) [31] showed associations of CD-RISC-10 with age and years of experience. There were significant positive correlations between CD-RISC-10

with age and years of experience in GPs and overall but no significant correlation among CPs in the present study. In the Gayton and Lovell (2012) [26] study, there were also significant positive correlations between CD-RISC-10 and years of experience and age. Brown et al. (2018) [29] also reported a significant correlation between CD-RISC-10 and years of experience. The present study, for GPs and overall, showed age as the predictor for CD-RISC-10, similar to Ang et al. (2018) [31]. Contrary to the present study, Brown et al. (2018) [29] and Ang et al. (2018) [31] showed that education was the significant predictor for CD-RISC-10.

The differences in the resilience scores could be explained by two main factors: distinct life experiences and cultural characteristics in sample populations. The difference in scores when compared with previous studies, which were conducted in western countries, may be due to the locus of control, as westerners tend to adopt a more external locus of control, while Asians adopt a more internal locus of control [33]. Younger healthcare professionals had lower resilience than older, which can be explained by the younger healthcare professionals still finding the fit for themselves in a professional role, especially new graduates. It may be added that, after undergoing loss or trauma, younger individuals are prone to respond more intensely [34]. There was an association between resilience and gender; males showed higher resilience scores than females. This may be due to prejudice in responding, since males were more concerned with showing an image of durability in managing pressure. Another possible clarification was that resilience had a negative relationship with distinct personality constructs, such as neuroticism, that were higher in females [35].

In another study conducted by Ren et al. (2018) [36] using the Chinese version of CD-RISC-25, which enrolled nurses in the study, the results showed that the education level influenced the resilience level. However, in this study, education level was not the predictor of resilience. A study by Cooke et al. (2013) [37], using the Resilience Scale-14 with a sample of general practice registrars, showed that 10% had low resilience, 82% had low-moderate resilience, and only 8% had a high resilience level, while the present study showed that 46.6% had the lowest resilience level, 33.8% had low-moderate resilience, and 19.5% had the highest resilience level. In addition, a study was conducted by Sull et al. (2015) [38] using the Resilience Scale (RS-25), in which enrolled healthcare workers showed that there was a significant association between gender and resilience, with females having a higher score. Our overall female respondents had a lower score; nonetheless, our study reported a similar trend for GPs and overall, but not in CPs. There was also a positive correlation between age and resilience, similar to present findings among GPs and overall, but not in CPs.

The main strength of this study was the novelty of its findings in establishing relationships between resilience and independent variables among Malaysian GPs and CPs in Malaysian private primary healthcare settings. A surplus strength was the application of a valid and reliable tool validated for Malaysian GPs and CPs. However, the findings of this study may not be generalizable to other physicians and pharmacists practicing in various levels of health facilities, including secondary and tertiary healthcare facilities. The working culture and environment of workplaces, in addition to different socioeconomic profiles of patients attending public and private healthcare facilities, may be attributable to professional resilience. The findings of this study, hence, suggest the importance of investigating other factors that may influence resilience among healthcare workers. As Malaysia is in the state of transitioning from COVID-19 being a pandemic to an endemic, there is a need to explore its impact on resilience among a systematic random sampling of healthcare workers nationwide.

5. Conclusions

In this study, GPs and CPs showed a low level of resilience. Resilience is needed for positive adaptation to harsh conditions in healthcare, which will indirectly affect working performance. The challenges mainly come from primary care, such as clinical care issues,

disputes with challenging patients, inter-professional communication, and inter-collegial relationships. Hence, resilience has become a fundamental personal quality that healthcare professionals need to cultivate to cope with adverse events in daily work.

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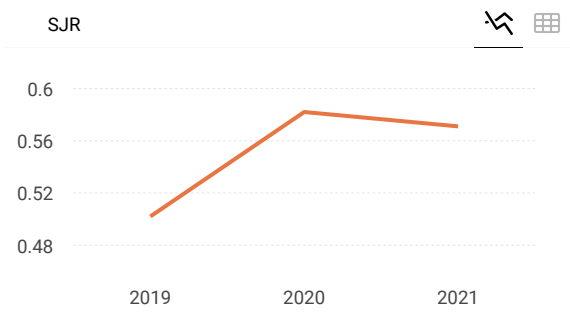

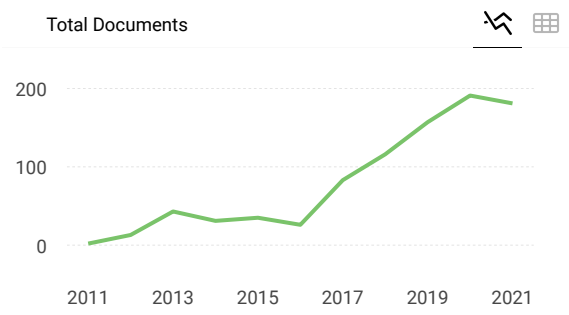

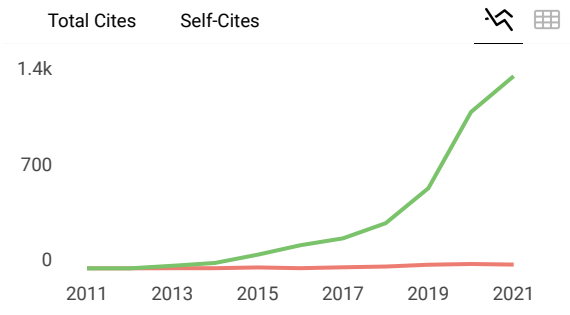

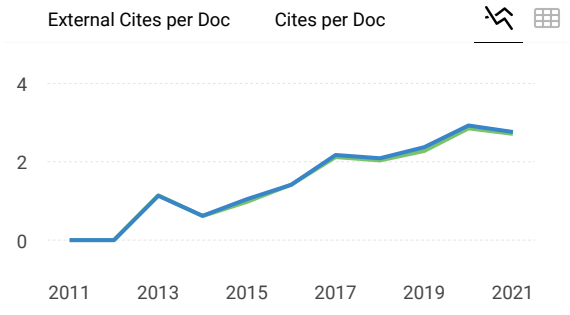

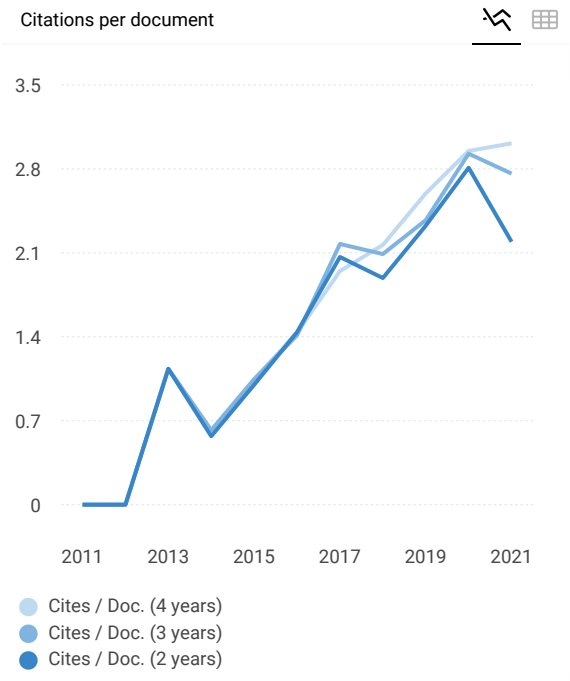

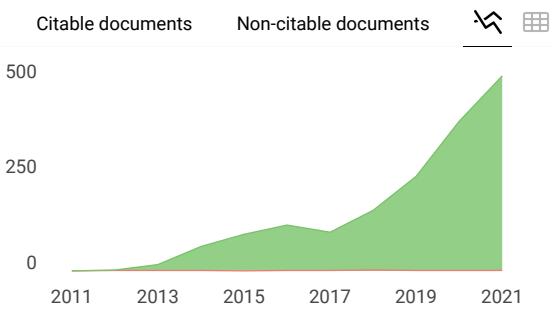

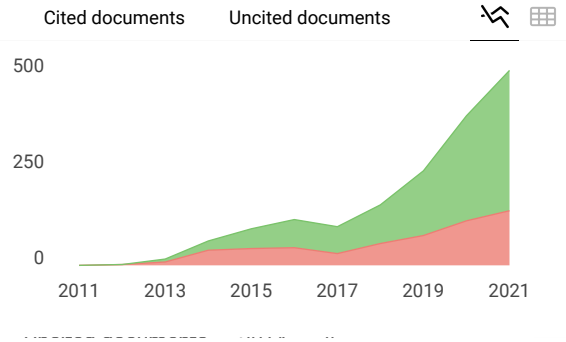

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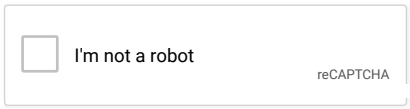

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