

# Mohmad Farooq Shaikh

## List of Publications by Year in descending order

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Version: 2024-02-01

102  
papers

2,354  
citations

257450

24  
h-index

265206

42  
g-index

105  
all docs

105  
docs citations

105  
times ranked

2947  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | HMGB1: A Common Biomarker and Potential Target for TBI, Neuroinflammation, Epilepsy, and Cognitive Dysfunction. <i>Frontiers in Neuroscience</i> , 2018, 12, 628.   | 2.8  | 206       |
| 2  | AMPA receptor GluA2 subunit defects are a cause of neurodevelopmental disorders. <i>Nature Communications</i> , 2019, 10, 3094.   | 12.8 | 150       |
| 3  | Impact of HMGB1, RAGE, and TLR4 in Alzheimer's Disease (AD): From Risk Factors to Therapeutic Targeting. <i>Cells</i> , 2020, 9, 383.   | 4.1  | 146       |
| 4  | Enlightening the role of high mobility group box 1 (HMGB1) in inflammation: Updates on receptor signalling. <i>European Journal of Pharmacology</i> , 2019, 858, 172487.  | 3.5  | 134       |
| 5  | Role of inflammation in epilepsy and neurobehavioral comorbidities: Implication for therapy. <i>European Journal of Pharmacology</i> , 2018, 837, 145-155.  | 3.5  | 98        |
| 6  | Zebrafish as a Model for Epilepsy-Induced Cognitive Dysfunction: A Pharmacological, Biochemical and Behavioral Approach. <i>Frontiers in Pharmacology</i> , 2017, 8, 515.   | 3.5  | 83        |
| 7  | Alcohol Use Disorder, Neurodegeneration, Alzheimer's and Parkinson's Disease: Interplay Between Oxidative Stress, Neuroimmune Response and Excitotoxicity. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 282. | 3.7  | 76        |
| 8  | High mobility group box 1 (HMGB1) as a novel frontier in epileptogenesis: from pathogenesis to therapeutic approaches. <i>Journal of Neurochemistry</i> , 2019, 151, 542-557.   | 3.9  | 68        |
| 9  | Zebrafish: A Versatile Animal Model for Fertility Research. <i>BioMed Research International</i> , 2016, 2016, 1-20.  | 1.9  | 67        |
| 10 | Amelioration of Cognitive Deficit by Embelin in a Scopolamine-Induced Alzheimer's Disease-Like Condition in a Rat Model. <i>Frontiers in Pharmacology</i> , 2018, 9, 665.   | 3.5  | 57        |
| 11 | HMGB1-Mediated Neuroinflammatory Responses in Brain Injuries: Potential Mechanisms and Therapeutic Opportunities. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4609.                                | 4.1  | 56        |
| 12 | <i>PDXK</i> mutations cause polyneuropathy responsive to pyridoxal 5-phosphate supplementation. <i>Annals of Neurology</i> , 2019, 86, 225-240.   | 5.3  | 54        |
| 13 | Emerging neuroprotective effect of metformin in Parkinson's disease: A molecular crosstalk. <i>Pharmacological Research</i> , 2020, 152, 104593.  | 7.1  | 53        |
| 14 | Potential Neuroprotective Effect of the HMGB1 Inhibitor Glycyrrhizin in Neurological Disorders. <i>ACS Chemical Neuroscience</i> , 2020, 11, 485-500.   | 3.5  | 49        |
| 15 | Plant Derived Phytocompound, Embelin in CNS Disorders: A Systematic Review. <i>Frontiers in Pharmacology</i> , 2017, 8, 76.   | 3.5  | 44        |
| 16 | Biallelic mutations in neurofascin cause neurodevelopmental impairment and peripheral demyelination. <i>Brain</i> , 2019, 142, 2948-2964.   | 7.6  | 43        |
| 17 | Characterization of anticonvulsant and antiepileptogenic potential of thymol in various experimental models. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2014, 387, 59-66.                                | 3.0  | 42        |
| 18 | Fractalkine (CX3CL1) signaling and neuroinflammation in Parkinson's disease: Potential clinical and therapeutic implications. <i>Pharmacological Research</i> , 2020, 158, 104930.                                    | 7.1  | 39        |

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|----|---|-----|-----------|
| 19 | Embelin Prevents Seizure and Associated Cognitive Impairments in a Pentylentetrazole-Induced Kindling Zebrafish Model. <i>Frontiers in Pharmacology</i> , 2019, 10, 315.  | 3.5 | 37        |
| 20 | Orthosiphon stamineus Leaf Extract Affects TNF- $\alpha$ and Seizures in a Zebrafish Model. <i>Frontiers in Pharmacology</i> , 2018, 9, 139.  | 3.5 | 34        |
| 21 | Embelin Improves the Spatial Memory and Hippocampal Long-Term Potentiation in a Rat Model of Chronic Cerebral Hypoperfusion. <i>Scientific Reports</i> , 2019, 9, 14507.  | 3.3 | 34        |
| 22 | Protective Effect of Natural Products against Huntington's Disease: An Overview of Scientific Evidence and Understanding Their Mechanism of Action. <i>ACS Chemical Neuroscience</i> , 2021, 12, 391-418.                         | 3.5 | 34        |
| 23 | Alcohol, Aggression, and Violence: From Public Health to Neuroscience. <i>Frontiers in Psychology</i> , 2021, 12, 699726.   | 2.1 | 32        |
| 24 | Tau Related Pathways as a Connecting Link between Epilepsy and Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , 2019, 10, 4199-4212.   | 3.5 | 27        |
| 25 | Effect of newer anti-epileptic drugs (AEDs) on the cognitive status in pentylentetrazol induced seizures in a zebrafish model. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2019, 92, 483-493.         | 4.8 | 27        |
| 26 | Gut Microbiota and Epilepsy: A Systematic Review on Their Relationship and Possible Therapeutics. <i>ACS Chemical Neuroscience</i> , 2020, 11, 3488-3498.   | 3.5 | 26        |
| 27 | Role of Innate Immune Receptor TLR4 and its endogenous ligands in epileptogenesis. <i>Pharmacological Research</i> , 2020, 160, 105172.   | 7.1 | 26        |
| 28 | Anticonvulsant screening of luteolin in four mouse seizure models. <i>Neuroscience Letters</i> , 2013, 550, 195-199.  | 2.1 | 25        |
| 29 | Acute toxicity profiling of the ethyl acetate fraction of <i>Swietenia macrophylla</i> seeds and in - vitro neuroprotection studies. <i>Saudi Pharmaceutical Journal</i> , 2017, 25, 196-205.                                     | 2.7 | 23        |
| 30 | Treatment, Therapy and Management of Metabolic Epilepsy: A Systematic Review. <i>International Journal of Molecular Sciences</i> , 2018, 19, 871.   | 4.1 | 22        |
| 31 | Embelin, a Potent Molecule for Alzheimer's Disease: A Proof of Concept From Blood-Brain Barrier Permeability, Acetylcholinesterase Inhibition and Molecular Docking Studies. <i>Frontiers in Neuroscience</i> , 2019, 13, 495.    | 2.8 | 21        |
| 32 | Pilocarpine Induced Behavioral and Biochemical Alterations in Chronic Seizure-Like Condition in Adult Zebrafish. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2492.   | 4.1 | 21        |
| 33 | Pivotal Role of Fyn Kinase in Parkinson's Disease and Levodopa-Induced Dyskinesia: a Novel Therapeutic Target?. <i>Molecular Neurobiology</i> , 2021, 58, 1372-1391.  | 4.0 | 20        |
| 34 | Flotillin: A Promising Biomarker for Alzheimer's Disease. <i>Journal of Personalized Medicine</i> , 2020, 10, 20.   | 2.5 | 19        |
| 35 | Lymphocyte-Activation Gene 3 (LAG3) Protein as a Possible Therapeutic Target for Parkinson's Disease: Molecular Mechanisms Connecting Neuroinflammation to $\alpha$ -Synuclein Spreading Pathology. <i>Biology</i> , 2020, 9, 86. | 2.8 | 19        |
| 36 | A Systematic Review on Non-mammalian Models in Epilepsy Research. <i>Frontiers in Pharmacology</i> , 2018, 9, 655.  | 3.5 | 18        |

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|----|---|-----|-----------|
| 37 | Elucidating the Potential Side Effects of Current Anti-Seizure Drugs for Epilepsy. <i>Current Neuropharmacology</i> , 2021, 19, 1865-1883.  | 2.9 | 18        |
| 38 | Implication of HMGB1 signaling pathways in Amyotrophic lateral sclerosis (ALS): From molecular mechanisms to pre-clinical results. <i>Pharmacological Research</i> , 2020, 156, 104792.   | 7.1 | 17        |
| 39 | Naturally Occurring HMGB1 Inhibitor, Glycyrrhizin, Modulates Chronic Seizures-Induced Memory Dysfunction in Zebrafish Model. <i>ACS Chemical Neuroscience</i> , 2021, 12, 3288-3302.  | 3.5 | 16        |
| 40 | Effect of <i>Eclipta alba</i> on acute seizure models: a GABAA-mediated effect. <i>Indian Journal of Pharmaceutical Sciences</i> , 2013, 75, 380.   | 1.0 | 16        |
| 41 | From the Molecular Mechanism to Pre-clinical Results: Anti-epileptic Effects of Fingolimod. <i>Current Neuropharmacology</i> , 2020, 18, 1126-1137.   | 2.9 | 15        |
| 42 | Revisiting the Impact of Neurodegenerative Proteins in Epilepsy: Focus on Alpha-Synuclein, Beta-Amyloid, and Tau. <i>Biology</i> , 2020, 9, 122.  | 2.8 | 14        |
| 43 | Embelin Protects Against Acute Pentylentetrazole-Induced Seizures and Positively Modulates Cognitive Function in Adult Zebrafish. <i>Frontiers in Pharmacology</i> , 2019, 10, 1249.  | 3.5 | 13        |
| 44 | Orthosiphon stamineus Standardized Extract Reverses Streptozotocin-Induced Alzheimer's Disease-Like Condition in a Rat Model. <i>Biomedicines</i> , 2020, 8, 104.   | 3.2 | 13        |
| 45 | Increased ACh-Associated Immunoreactivity in Autonomic Centers in PTZ Kindling Model of Epilepsy. <i>Biomedicines</i> , 2020, 8, 113.   | 3.2 | 13        |
| 46 | Animal Models of Metabolic Epilepsy and Epilepsy Associated Metabolic Dysfunction: A Systematic Review. <i>Pharmaceuticals</i> , 2020, 13, 106.   | 3.8 | 13        |
| 47 | The Role of Neuroinflammatory Mediators in the Pathogenesis of Traumatic Brain Injury: A Narrative Review. <i>ACS Chemical Neuroscience</i> , 0, , .  | 3.5 | 13        |
| 48 | Orthosiphon stamineus Proteins Alleviate Pentylentetrazol-Induced Seizures in Zebrafish. <i>Biomedicines</i> , 2020, 8, 191.  | 3.2 | 12        |
| 49 | The Gut-Brain-Axis on the Manifestation of Depressive Symptoms in Epilepsy: An Evidence-Driven Hypothesis. <i>Frontiers in Pharmacology</i> , 2020, 11, 465.  | 3.5 | 12        |
| 50 | Ethanol Extract of Orthosiphon stamineus Improves Memory in Scopolamine-Induced Amnesia Model. <i>Frontiers in Pharmacology</i> , 2019, 10, 1216.   | 3.5 | 11        |
| 51 | Melatonin as an Antiepileptic Molecule: Therapeutic Implications via Neuroprotective and Inflammatory Mechanisms. <i>ACS Chemical Neuroscience</i> , 2021, 12, 1281-1292.   | 3.5 | 11        |
| 52 | Impact of the COVID-19 Lockdown in Malaysia: An Examination of the Psychological Well-Being of Parent-Child Dyads and Child Behavior in Families With Children on the Autism Spectrum. <i>Frontiers in Psychiatry</i> , 2021, 12, 733905. | 2.6 | 11        |
| 53 | A Systematic Review of the Protective Actions of Cat's Whiskers (Misai Kucing) on the Central Nervous System. <i>Frontiers in Pharmacology</i> , 2020, 11, 692.   | 3.5 | 10        |
| 54 | Tumor Necrosis Factor- $\alpha$ , the Pathological Key to Post-Traumatic Epilepsy: A Comprehensive Systematic Review. <i>ACS Chemical Neuroscience</i> , 2020, 11, 1900-1908.   | 3.5 | 10        |

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|----|--|-----|-----------|
| 55 | Anti-High Mobility Group Box-1 Monoclonal Antibody Attenuates Seizure-Induced Cognitive Decline by Suppressing Neuroinflammation in an Adult Zebrafish Model. <i>Frontiers in Pharmacology</i> , 2020, 11, 613009. | 3.5 | 10        |
| 56 | Cardiorespiratory findings in epilepsy: A recent review on outcomes and pathophysiology. <i>Journal of Neuroscience Research</i> , 2021, 99, 2059-2073.  | 2.9 | 9         |
| 57 | Identification of curcumin analogues with anti-seizure potential in vivo using chemical and genetic zebrafish larva seizure models. <i>Biomedicine and Pharmacotherapy</i> , 2021, 142, 112035.                    | 5.6 | 9         |
| 58 | The impact of epilepsy on the manifestation of anxiety disorder. <i>International Journal of Nutrition, Pharmacology, Neurological Diseases</i> , 2016, 6, 3.  | 0.5 | 9         |
| 59 | Epilepsy-associated comorbidities among adults: A plausible therapeutic role of gut microbiota. <i>Neurobiology of Disease</i> , 2022, 165, 105648.  | 4.4 | 9         |
| 60 | Nanoencapsulation of Polyphenols as Drugs and Supplements for Enhancing Therapeutic Profile - A Review. <i>Current Molecular Pharmacology</i> , 2021, 14, .  | 1.5 | 8         |
| 61 | Molecules of Interest " Karanjin " A Review. <i>Pharmacognosy Journal</i> , 2020, 12, 938-945.   | 0.8 | 8         |
| 62 | Effect of Pelargonidin isolated from <i>Ficus benghalensis</i> L. on phenotypic changes in zebrafish ( <i>Danio</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf  | 2.7 | 7         |
| 63 | The utilization of small non-mammals in traumatic brain injury research: A systematic review. <i>CNS Neuroscience and Therapeutics</i> , 2021, 27, 381-402.  | 3.9 | 7         |
| 64 | Immunoreactivity of Muscarinic Acetylcholine M2 and Serotonin 5-HT2B Receptors, Norepinephrine Transporter and Kir Channels in a Model of Epilepsy. <i>Life</i> , 2021, 11, 276.                                   | 2.4 | 7         |
| 65 | Poloxamer 188 (P188), A Potential Polymeric Protective Agent for Central Nervous System Disorders: A Systematic Review. <i>Current Neuropharmacology</i> , 2022, 20, 799-808.                                      | 2.9 | 7         |
| 66 | An Interplay Between Post-Traumatic Epilepsy and Associated Cognitive Decline: A Systematic Review. <i>Frontiers in Neurology</i> , 2022, 13, 827571.  | 2.4 | 7         |
| 67 | Melatonin receptor agonist Piper betle L. ameliorates dexamethasone-induced early life stress in adult zebrafish. <i>Experimental and Therapeutic Medicine</i> , 2019, 18, 1407-1416.                              | 1.8 | 6         |
| 68 | Mechanism of <i>Curcuma longa</i> and Its Neuroactive Components for the Management of Epileptic Seizures: A Systematic Review. <i>Current Neuropharmacology</i> , 2021, 19, 1496-1518.                            | 2.9 | 6         |
| 69 | Effects of leaf extract on lipopolysaccharide -induced neuroinflammation in rats: A behavioral and H NMR-based metabolomics study. <i>Avicenna Journal of Phytomedicine</i> , 2019, 9, 164-186.                    | 0.2 | 6         |
| 70 | The anti-neuroinflammatory effects of <i>Clinacanthus nutans</i> leaf extract on metabolism elucidated through 1H NMR in correlation with cytokines microarray. <i>PLoS ONE</i> , 2020, 15, e0238503.              | 2.5 | 5         |
| 71 | Evaluation of Anti-Convulsive Properties of Aqueous Kava Extract on Zebrafish Using the PTZ-Induced Seizure Model. <i>Brain Sciences</i> , 2020, 10, 541.  | 2.3 | 5         |
| 72 | Is Aducanumab for LMICs? Promises and Challenges. <i>Brain Sciences</i> , 2021, 11, 1547.  | 2.3 | 5         |

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|----|---|-----|-----------|
| 73 | Current status of traumatic brain injury research in Malaysia: A systematic review. <i>Neuroscience Research Notes</i> , 2020, 3, 1-21.   | 0.8 | 5         |
| 74 | Chemotherapeutic Role of Polyphenols Present in <i>Ocimum sanctum</i> . <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2022, 22, 3325-3342.   | 1.7 | 5         |
| 75 | Nanotechnological Advances in the Treatment of Epilepsy. <i>CNS and Neurological Disorders - Drug Targets</i> , 2022, 21, 994-1003.   | 1.4 | 4         |
| 76 | Editorial: Experimental Models of Epilepsy and Related Comorbidities. <i>Frontiers in Pharmacology</i> , 2019, 10, 179.   | 3.5 | 3         |
| 77 | Aducanumab for Alzheimer's disease: An update. <i>Neuroscience Research Notes</i> , 2021, 4, 17-20.   | 0.8 | 3         |
| 78 | Multi-Platform Metabolomics Analyses Revealed the Complexity of Serum Metabolites in LPS-Induced Neuroinflamed Rats Treated with <i>Clinacanthus nutans</i> Aqueous Extract. <i>Frontiers in Pharmacology</i> , 2021, 12, 629561. | 3.5 | 3         |
| 79 | Reverse Pharmacology: Fast Track Path of Drug Discovery. <i>Pharmacy &amp; Pharmacology International Journal</i> , 2016, 4, .  | 0.2 | 3         |
| 80 | Medical Technology: A Systematic Review on Medical Devices Utilized for Epilepsy Prediction and Management. <i>Current Neuropharmacology</i> , 2022, 20, 950-964.   | 2.9 | 3         |
| 81 | The Role of High Mobility Group Box 1 (HMGB1) in Neurodegeneration: A Systematic Review. <i>Current Neuropharmacology</i> , 2022, 20, 2221-2245.  | 2.9 | 3         |
| 82 | Isolation and Characterization of A2-EPTX-Nsm1a, a Secretory Phospholipase A2 from Malaysian Spitting Cobra ( <i>Naja sumatrana</i> ) Venom. <i>Toxins</i> , 2021, 13, 859.   | 3.4 | 3         |
| 83 | Inflammation: Cause or Consequence of Epilepsy?. , 2019, , .  |     | 2         |
| 84 | Mapping the role of pH-adjusted potassium in diabetic ketoacidosis: Hypokalemia and the patient outcomes. <i>International Journal of Clinical Practice</i> , 2021, 75, e14315.   | 1.7 | 2         |
| 85 | Epilepsy and Comorbidities: Towards unraveling the common underlying mechanisms. <i>Neuroscience Research Notes</i> , 2019, 1, 1-4.   | 0.8 | 2         |
| 86 | Embelin prevents amyloid-beta accumulation via modulation of SOD1 in a Streptozotocin-induced AD-like condition: An evidence from in vitro investigation. <i>Current Research in Neurobiology</i> , 2022, 3, 100032.              | 2.3 | 2         |
| 87 | ANTIOXIDANT CAPABILITIES OF <i>Litsea garciae</i> BARK EXTRACTS AND THEIR RELATION TO THE PHYTOCHEMICAL COMPOSITIONS. , 2022, 51, 99-118.   |     | 2         |
| 88 | Channa Striatus Protects Against PTZ-Induced Seizures in LPS Pre-conditioned Zebrafish Model. <i>Frontiers in Pharmacology</i> , 2022, 13, 821618.  | 3.5 | 2         |
| 89 | Zebrafish Model of Cognitive Dysfunction. , 2018, , .   |     | 1         |
| 90 | Re-visiting pH-adjusted potassium to avoid hypokalemic crisis during management of diabetic ketoacidosis: A conceptual framework. <i>Diabetes and Metabolic Syndrome: Clinical Research and Reviews</i> , 2021, 15, 573-580.      | 3.6 | 1         |

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|-----|---|-----|-----------|
| 91  | Orthosiphon stamineus Proteins Alleviate Hydrogen Peroxide Stress in SH-SY5Y Cells. <i>Life</i> , 2021, 11, 585.  | 2.4 | 1         |
| 92  | Fruits for Seizures? A Systematic Review on the Potential Anti- Convulsant Effects of Fruits and its Phytochemicals. <i>Current Neuropharmacology</i> , 2021, 19, .   | 2.9 | 1         |
| 93  | Nanotechnological Approaches for Management of NeuroAIDS. , 2019, , 165-196.  |     | 1         |
| 94  | A Review on Natural Therapy for Seizure Disorders. <i>Pharmacy &amp; Pharmacology International Journal</i> , 2015, 3, .  | 0.2 | 1         |
| 95  | The treatment of epileptic seizures: the potential of Malaysian medicinal plants. <i>Neuroscience Research Notes</i> , 2019, 1, 35-53.  | 0.8 | 1         |
| 96  | COVID-19 and mental health: Our reactions to its actions. <i>Neuroscience Research Notes</i> , 2020, 3, 1-3.  | 0.8 | 1         |
| 97  | Unlocking sociocultural and community factors for the global adoption of genomic medicine. <i>Orphanet Journal of Rare Diseases</i> , 2022, 17, 191.  | 2.7 | 1         |
| 98  | Editorial: Experimental & Clinical Epilepsy and Related Comorbidities. <i>Frontiers in Pharmacology</i> , 2020, 11, 592448.   | 3.5 | 0         |
| 99  | Methods to Investigate Seizures and Associated Cognitive Decline Using Zebrafish Model. <i>Neuromethods</i> , 2021, , 221-232.  | 0.3 | 0         |
| 100 | A Perspective on the Impact of COVID-19 Pandemic on Basic Science Research and its Future Implications. <i>Coronaviruses</i> , 2021, 2, .   | 0.3 | 0         |
| 101 | Investigating the role of muscarinic acetylcholine M2 and serotonin 5-HT2B receptors, norepinephrine transporter and Kir channels in a pentylenetetrazol-kindling model of epilepsy. <i>Journal of the Neurological Sciences</i> , 2021, 429, 117714. | 0.6 | 0         |
| 102 | Neuroactive drugsâ€“A perspective on drugs of synthetic and medicinal plants origin. <i>Pharmacy &amp; Pharmacology International Journal</i> , 2018, 6, .  | 0.2 | 0         |