

# Firdos Alam Khan

## List of Publications by Year in descending order

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Version: 2024-02-01

77  
papers

1,634  
citations

236612

25  
h-index

344852

36  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1594  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Correlation between microstructure parameters and anti-cancer activity of the [Mn <sub>0.5</sub> Zn <sub>0.5</sub> ](EuxNd <sub>x</sub> Fe <sub>2-2x</sub> )O <sub>4</sub> nanoferrites produced by modified sol-gel and ultrasonic methods. <i>Ceramics International</i> , 2020, 46, 7346-7354. | 2.3 | 128       |
| 2  | Ce <sup>3+</sup> /Nd Co-substituted nanospinel cobalt ferrites: An investigation of their structural, magnetic, optical, and apoptotic properties. <i>Ceramics International</i> , 2019, 45, 16147-16156.   | 2.3 | 90        |
| 3  | Synthesis of Mn <sub>0.5</sub> Zn <sub>0.5</sub> Sm <sub>x</sub> EuxFe <sub>1.8-2x</sub> O <sub>4</sub> Nanoparticles via the Hydrothermal Approach Induced Anti-Cancer and Anti-Bacterial Activities. <i>Nanomaterials</i> , 2019, 9, 1635.  | 1.9 | 56        |
| 4  | Magnetic properties, anticancer and antibacterial effectiveness of sonochemically produced Ce <sup>3+</sup> /Dy <sup>3+</sup> co-activated Mn-Zn nanospinel ferrites. <i>Arabian Journal of Chemistry</i> , 2020, 13, 7403-7417.  | 2.3 | 53        |
| 5  | The transdifferentiation potential of limbal fibroblast-like cells. <i>Developmental Brain Research</i> , 2005, 160, 239-251.   | 2.1 | 52        |
| 6  | Single step production of high-purity copper oxide-titanium dioxide nanocomposites and their effective antibacterial and anti-biofilm activity against drug-resistant bacteria. <i>Materials Science and Engineering C</i> , 2020, 113, 110992.   | 3.8 | 52        |
| 7  | Biocompatible Tin Oxide Nanoparticles: Synthesis, Antibacterial, Anticandidal and Cytotoxic Activities. <i>ChemistrySelect</i> , 2019, 4, 4013-4017.  | 0.7 | 50        |
| 8  | Synthesis of Dy-Y co-substituted manganese-zinc spinel nanoferrites induced anti-bacterial and anti-cancer activities: Comparison between sonochemical and sol-gel auto-combustion methods. <i>Materials Science and Engineering C</i> , 2020, 116, 111186.                                       | 3.8 | 50        |
| 9  | Targeted delivery of miRNA based therapeutics in the clinical management of Glioblastoma Multiforme. <i>Seminars in Cancer Biology</i> , 2021, 69, 391-398.   | 4.3 | 49        |
| 10 | Using <i>Fomitopsis pinicola</i> for bioinspired synthesis of titanium dioxide and silver nanoparticles, targeting biomedical applications. <i>RSC Advances</i> , 2020, 10, 32137-32147.  | 1.7 | 46        |
| 11 | Bactericidal and In Vitro Cytotoxicity of Moringa oleifera Seed Extract and Its Elemental Analysis Using Laser-Induced Breakdown Spectroscopy. <i>Pharmaceuticals</i> , 2020, 13, 193.  | 1.7 | 43        |
| 12 | Targeted delivery of poly (methyl methacrylate) particles in colon cancer cells selectively attenuates cancer cell proliferation. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 1533-1542.  | 1.9 | 40        |
| 13 | Trends in targeted delivery of nanomaterials in colon cancer diagnosis and treatment. <i>Medicinal Research Reviews</i> , 2022, 42, 227-258.  | 5.0 | 38        |
| 14 | Impact of nanoparticles on neuron biology: current research trends. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 2767-2776.  | 3.3 | 37        |
| 15 | Anticandidal and In vitro Anti-Proliferative Activity of Sonochemically synthesized Indium Tin Oxide Nanoparticles. <i>Scientific Reports</i> , 2020, 10, 3228.   | 1.6 | 36        |
| 16 | FMSP-Nanoparticles Induced Cell Death on Human Breast Adenocarcinoma Cell Line (MCF-7 Cells): Morphometric Analysis. <i>Biomolecules</i> , 2018, 8, 32.   | 1.8 | 35        |
| 17 | A Wild Fomes fomentarius for Biomediation of One Pot Synthesis of Titanium Oxide and Silver Nanoparticles for Antibacterial and Anticancer Application. <i>Biomolecules</i> , 2020, 10, 622.  | 1.8 | 34        |
| 18 | Neuron-glia interactions: Molecular basis of alzheimer's disease and applications of neuroproteomics. <i>European Journal of Neuroscience</i> , 2020, 52, 2931-2943.  | 1.2 | 32        |

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|----|---|-----|-----------|
| 19 | Synthesis and biological characterization of Mn <sub>0.5</sub> Zn <sub>0.5</sub> EuxDyxFe <sub>1.8-2x</sub> O <sub>4</sub> nanoparticles by sonochemical approach. <i>Materials Science and Engineering C</i> , 2020, 109, 110534.  | 3.8 | 31        |
| 20 | Isolation, Culture, and Functional Characterization of Human Embryonic Stem Cells: Current Trends and Challenges. <i>Stem Cells International</i> , 2018, 2018, 1-8.  | 1.2 | 30        |
| 21 | Convenient Synthesis and Anticancer Activity of Methyl 2-[3-(3-Phenyl-quinoxalin-2-ylsulfanyl)propanamido]alkanoates and <i>N</i> -Alkyl 3-((3-Phenyl-quinoxalin-2-yl)sulfanyl)propanamides. <i>ACS Omega</i> , 2019, 4, 18555-18566.   | 1.6 | 29        |
| 22 | Sol-Gel Synthesis of Dy-Substituted Ni <sub>0.4</sub> Cu <sub>0.2</sub> Zn <sub>0.4</sub> (Fe <sub>2-x</sub> Dyx) <sub>0.4</sub> Nano Spinel Ferrites and Evaluation of Their Antibacterial, Antifungal, Antibiofilm and Anticancer Potentialities for Biomedical Application. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 5633-5650. | 3.3 | 28        |
| 23 | Extracts of Clove ( <i>Syzygium aromaticum</i> ) Potentiate FMSP-Nanoparticles Induced Cell Death in MCF-7 Cells. <i>International Journal of Biomaterials</i> , 2018, 2018, 1-10.  | 1.1 | 27        |
| 24 | Quantum dots encapsulated with curcumin inhibit the growth of colon cancer, breast cancer and bacterial cells. <i>Nanomedicine</i> , 2020, 15, 969-980.   | 1.7 | 27        |
| 25 | Biofabricated Fatty Acids-Capped Silver Nanoparticles as Potential Antibacterial, Antifungal, Antibiofilm and Anticancer Agents. <i>Pharmaceuticals</i> , 2021, 14, 139.  | 1.7 | 27        |
| 26 | Formulation of gold nanoparticles with hibiscus and curcumin extracts induced anti-cancer activity. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103594.   | 2.3 | 27        |
| 27 | Synthesis of chitosan nanoparticles, chitosan-bulk, chitosan nanoparticles conjugated with glutaraldehyde with strong anti-cancer proliferative capabilities. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1152-1161.  | 1.9 | 26        |
| 28 | Fluorescent magnetic submicronic polymer (FMSP) nanoparticles induce cell death in human colorectal carcinoma cells. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 247-253.   | 1.9 | 26        |
| 29 | Synthesis of Ni <sub>0.5</sub> Co <sub>0.5-x</sub> Cd <sub>x</sub> Fe <sub>1.78</sub> Nd <sub>0.02</sub> O <sub>4</sub> (x = 0.25) nanofibers by using electrospinning technique induce anti-cancer and anti-bacterial activities. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 39, 1-8.   | 2.0 | 26        |
| 30 | Synthesis of Nanomaterials: Methods & Technology. , 2020, , 15-21.  |     | 21        |
| 31 | Green synthesis of Nd substituted Co-Ni nanospinel ferrites: a structural, magnetic, and antibacterial/anticancer investigation. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 055002.  | 1.3 | 19        |
| 32 | Anti-microbial and anti-cancer activities of Mn <sub>0.5</sub> Zn <sub>0.5</sub> Dy <sub>x</sub> Fe <sub>2-x</sub> O <sub>4</sub> (x = 0.1) nanoparticles. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2021, 49, 493-499.   | 1.9 | 18        |
| 33 | FMRamide-like Immunoreactivity in the Olfactory System Responds to Morphine Treatment in the Teleost <i>Clarias batrachus</i> : Involvement of Opiate Receptors. <i>General and Comparative Endocrinology</i> , 1998, 110, 79-87.   | 0.8 | 17        |
| 34 | Intracranial metyrapone stimulates CRF-ACTH axis in the teleost, <i>Clarias batrachus</i> . <i>NeuroReport</i> , 1994, 5, 2093-2096.  | 0.6 | 16        |
| 35 | Synthesis of niobium substituted cobalt-nickel nano-ferrite   |     |           |

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|----|---|-----|-----------|
| 37 | Structure, magnetoelectric, and anticancer activities of core-shell $\text{Co}_0.8\text{Mn}_{0.2}\text{R}_{0.02}\text{Fe}_{1.98}\text{O}_4/\text{BaTiO}_3$ nanocomposites (R = Ce, Eu, Tb, Tm, or Gd). <i>Ceramics International</i> , 2022, 48, 14640-14651.               | 2.3 | 16        |
| 38 | $\beta$ -Endorphin-like Immunoreactivity in the Forebrain and Pituitary of the Teleost <i>Clarias batrachus</i> (Linn.). <i>General and Comparative Endocrinology</i> , 1999, 113, 290-301.   | 0.8 | 15        |
| 39 | Evaluation of bioactivities of zinc oxide, cadmium sulfide and cadmium sulfide loaded zinc oxide nanostructured materials prepared by nanosecond pulsed laser. <i>Materials Science and Engineering C</i> , 2020, 116, 111156.  | 3.8 | 13        |
| 40 | Synthesis, Characterization, Anti-Cancer Analysis of $\text{Sr}_{0.5}\text{Ba}_{0.5}\text{Dy}_x\text{Sm}_x\text{Fe}_{8-2x}\text{O}_{19}$ (0.00 $\leq x \leq$ 1.0) Microsphere Nanocomposites. <i>Nanomaterials</i> , 2021, 11, 700.   | 1.9 | 13        |
| 41 | Designing of $\text{Co}_{0.5}\text{Ni}_{0.5}\text{GaxFe}_{2-x}\text{O}_4$ (0.0 $\leq x \leq$ 1.0) Microspheres via Hydrothermal Approach and Their Selective Inhibition on the Growth of Cancerous and Fungal Cells. <i>Pharmaceutics</i> , 2021, 13, 962.                  | 2.0 | 13        |
| 42 | Nanomaterials: Types, Classifications, and Sources. , 2020, , 1-13.   |     | 13        |
| 43 | Carbon Nano Tubes: Novel Drug Delivery System in Amelioration of Alzheimer's Disease. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2021, 24, 1528-1543.   | 0.6 | 12        |
| 44 | Green synthesis, characterization and anti-cancer capability of $\text{Co}_{0.5}\text{Ni}_{0.5}\text{Nd}_{0.02}\text{Fe}_{1.98}\text{O}_4$ nanocomposites. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103564.  | 2.3 | 12        |
| 45 | Delivery of Conjugated Silicon Dioxide Nanoparticles Show Strong Anti-Proliferative Activities. <i>Applied Biochemistry and Biotechnology</i> , 2019, 189, 760-773.   | 1.4 | 11        |
| 46 | Functionalized magnetic nanoparticles attenuate cancer cells proliferation: Transmission electron microscopy analysis. <i>Microscopy Research and Technique</i> , 2019, 82, 983-992.  | 1.2 | 11        |
| 47 | Role of Lipid Rafts in Hematopoietic Stem Cells Homing, Mobilization, Hibernation, and Differentiation. <i>Cells</i> , 2019, 8, 630.  | 1.8 | 10        |
| 48 | Immunotherapy for Alzheimer's Disease: Current Scenario and Future Perspectives. <i>Journal of prevention of Alzheimer's disease</i> , The, 2021, 8, 1-18.  | 1.5 | 10        |
| 49 | Recent Advancement in Clinical Application of Nanotechnological Approached Targeted Delivery of Herbal Drugs. , 2020, , 151-172.  |     | 10        |
| 50 | Emerging trends in the delivery of nanoformulated oxytocin across Blood-Brain barrier. <i>International Journal of Pharmaceutics</i> , 2021, 609, 121141.   | 2.6 | 9         |
| 51 | Thymoquinone Potentiates the Effect of Phenytoin against Electroshock-Induced Convulsions in Rats by Reducing the Hyperactivation of m-TOR Pathway and Neuroinflammation: Evidence from In Vivo, In Vitro and Computational Studies. <i>Pharmaceutics</i> , 2021, 14, 1132. | 1.7 | 9         |
| 52 | Activation of Hypothalamic Neurons by Intraovarian Pressure Signals in a Teleost Fish, <i>Clarias batrachus</i> : Role of Mechanosensitive Channels. <i>Brain, Behavior and Evolution</i> , 1996, 47, 179-184.  | 0.9 | 8         |
| 53 | Tracking of SPIONs in Barley ( <i>Hordeum vulgare</i> L.) Plant Organs During its Growth. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 3285-3294.  | 0.8 | 8         |
| 54 | Spectrochemical analysis using LIBS and ICP-OES techniques of herbal medicine (Tinnevely Senna) <i>Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50</i>   | 2.3 | 8         |

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|----|---|-----|-----------|
| 55 | Combinational Use of Phytochemicals and Chemotherapeutic Drugs Enhance Their Therapeutic Potential on Human Cervical Cancer Cells. <i>International Journal of Cancer Management</i> , 2019, 12, .                                    | 0.2 | 8         |
| 56 | Involvement of corticosteroid-like neurosteroids in pentobarbital-induced sleep. <i>NeuroReport</i> , 1996, 8, 139-141.   | 0.6 | 7         |
| 57 | Ultrasonic Synthesis and Biomedical Application of Mn <sub>0.5</sub> Zn <sub>0.5</sub> Er <sub>x</sub> Y <sub>x</sub> Fe <sub>2</sub> ~ <sub>2</sub> O <sub>4</sub> Nanoparticles. <i>Biomolecules</i> , 2021, 11, 703.               | 1.8 | 7         |
| 58 | Combinatorial Regimen of Carbamazepine and Imipramine Exhibits Synergism against Grandmal Epilepsy in Rats: Inhibition of Pro-Inflammatory Cytokines and PI3K/Akt/mTOR Signaling Pathway. <i>Pharmaceuticals</i> , 2021, 14, 1204.    | 1.7 | 7         |
| 59 | The synthesis and antiproliferative activity of new <i>N</i> -allyl quinoxalinecarboxamides and their <i>O</i> -regioisomers. <i>New Journal of Chemistry</i> , 2021, 45, 831-849.  | 1.4 | 6         |
| 60 | Synthesis and Cytotoxic Activity of Novel Metal Complexes Derived from Methyl-3-(4-chlorophenyl)-3-hydroxy-2,2-dimethylpropanoate as Potential CDK8 Kinase Inhibitors. <i>ACS Omega</i> , 2021, 6, 5244-5254.                         | 1.6 | 6         |
| 61 | Impact of gold nanoparticles on colon cancer treatment and diagnosis. <i>Nanomedicine</i> , 2021, 16, 779-782.  | 1.7 | 6         |
| 62 | Calcitonin-like immunoreactivity in the subcommissural organ and Reissner's fiber in the teleost <i>Clarias batrachus</i> , frog <i>Rana tigrina</i> and lizard <i>Calotes versicolor</i> . <i>Brain Research</i> , 1997, 751, 13-19. | 1.1 | 5         |
| 63 | Biotechnology in Medical Sciences. , 0, , .   |     | 5         |
| 64 | Newly synthesized 3-(4-chloro-phenyl)-3-hydroxy-2,2-dimethyl-propionic acid methyl ester derivatives selectively inhibit the proliferation of colon cancer cells. <i>RSC Advances</i> , 2020, 10, 8825-8841.                          | 1.7 | 4         |
| 65 | Biotechnology Fundamentals. , 0, , .  |     | 4         |
| 66 | Synthesis, DFT Molecular Geometry and Anticancer Activity of Symmetrical 2,2~(2-Oxo-1H-benzo[d]imidazole-1,3(2H)-diyl) Diacetate and Its Arylideneacetohydrazide Derivatives. <i>Materials</i> , 2022, 15, 2544.                      | 1.3 | 4         |
| 67 | Synthesis and in vitro anti-proliferative capabilities of steroidal thiazole and indole derivatives. <i>Journal of Saudi Chemical Society</i> , 2019, 23, 775-780.  | 2.4 | 3         |
| 68 | Synthesis and Anti proliferative Activity of New <i>N</i> -Pentylquinoxaline carboxamides and Their <i>O</i> -Regioisomer. <i>ChemistrySelect</i> , 2020, 5, 13439-13453.   | 0.7 | 3         |
| 69 | Major Nano-based Products: Nanomedicine, Nanosensors, and Nanodiagnostics. , 2020, , 211-228.   |     | 3         |
| 70 | Types and Classification of Stem Cells. <i>Pancreatic Islet Biology</i> , 2021, , 25-49.  | 0.1 | 2         |
| 71 | Biological databases and tools for neurological disorders. <i>Journal of Integrative Neuroscience</i> , 2022, 21, 041.  | 0.8 | 2         |
| 72 | Medical biotechnology. , 2018, , 355-419.   |     | 1         |

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|----|--|-----|-----------|
| 73 | Template-free preparation of iron oxide loaded hollow silica spheres and their anticancer proliferation capabilities. RSC Advances, 2022, 12, 6791-6802.   | 1.7 | 1         |
| 74 | Stem Cells in Regenerative Medicine: Clinical Trials. Pancreatic Islet Biology, 2021, , 215-242.   | 0.1 | 0         |
| 75 | Synthesis, Characterization, and Biological Screening of Nanomaterials and Biomaterials. Combinatorial Chemistry and High Throughput Screening, 2021, 24, 1527-1527.                               | 0.6 | 0         |
| 76 | Hormones Management as Anticancer Treatment and Protection: Functions and Mechanism of Action. Topics in Anti-cancer Research, 2020, , 155-192.  | 0.2 | 0         |
| 77 | Synthesis of 29H,31H-phthalocyanine and chloro (29H,31H-phthalocyaninato) aluminum derivatives showed anti-cancer and anti-bacterial actions. Journal of Saudi Chemical Society, 2022, 26, 101436. | 2.4 | 0         |