

Imtiaz Khan

List of Publications by Year in descending order

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91
papers

3,488
citations

159585

30
h-index

149698

56
g-index

104
all docs

104
docs citations

104
times ranked

3702
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in the structural library of functionalized quinazoline and quinazolinone scaffolds: Synthetic approaches and multifarious applications. <i>European Journal of Medicinal Chemistry</i> , 2014, 76, 193-244.	5.5	370
2	Synthetic approaches, functionalization and therapeutic potential of quinazoline and quinazolinone skeletons: The advances continue. <i>European Journal of Medicinal Chemistry</i> , 2015, 90, 124-169.	5.5	317
3	Synthesis, antioxidant activities and urease inhibition of some new 1,2,4-triazole and 1,3,4-thiadiazole derivatives. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 5200-5207.	5.5	265
4	Quinazolines and quinazolinones as ubiquitous structural fragments in medicinal chemistry: An update on the development of synthetic methods and pharmacological diversification. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 2361-2381.	3.0	202
5	Enantioselective Synthesis of Spiroindenes by Enolate-Directed Rhodium(III)-Catalyzed C-C Functionalization and Spiroannulation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13975-13979.	13.8	138
6	Functionalization of C-H and C-H Bonds: Synthesis of Spiroindenes by Enolate-Directed Ruthenium-Catalyzed Oxidative Annulation of Alkynes with 2-Aryl-1,3-dicarbonyl Compounds. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12115-12119.	13.8	130
7	Synthesis, crystal structure and biological evaluation of some novel 1,2,4-triazolo[3,4-b]-1,3,4-thiadiazoles and 1,2,4-triazolo[3,4-b]-1,3,4-thiadiazines. <i>European Journal of Medicinal Chemistry</i> , 2014, 78, 167-177.	5.5	86
8	Triazolothiadiazoles and triazolothiadiazines – Biologically attractive scaffolds. <i>European Journal of Medicinal Chemistry</i> , 2013, 63, 854-868.	5.5	77
9	Structurally Diversified Heterocycles and Related Privileged Scaffolds as Potential Urease Inhibitors: A Brief Overview. <i>Archiv Der Pharmazie</i> , 2013, 346, 423-446.	4.1	75
10	Transition-metal-free synthesis of oxazoles: valuable structural fragments in drug discovery. <i>RSC Advances</i> , 2016, 6, 93016-93047.	3.6	73
11	Exploiting the Role of Molecular Electrostatic Potential, Deformation Density, Topology, and Energetics in the Characterization of S-A-N and Cl-A-N Supramolecular Motifs in Crystalline Triazolothiadiazoles. <i>Crystal Growth and Design</i> , 2016, 16, 1371-1386.	3.0	68
12	Developing hybrid molecule therapeutics for diverse enzyme inhibitory action: Active role of coumarin-based structural leads in drug discovery. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 3731-3762.	3.0	63
13	Oxadiazoles as Privileged Motifs for Promising Anticancer Leads: Recent Advances and Future Prospects. <i>Archiv Der Pharmazie</i> , 2014, 347, 1-20.	4.1	58
14	Synthesis of Benzopyrans by Pd(II)- or Ru(II)-Catalyzed C-H Alkenylation of 2-Aryl-3-hydroxy-2-cyclohexenones. <i>Organic Letters</i> , 2013, 15, 570-573.	4.6	55
15	Active compounds from a diverse library of triazolothiadiazole and triazolothiadiazine scaffolds: Synthesis, crystal structure determination, cytotoxicity, cholinesterase inhibitory activity, and binding mode analysis. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 6163-6173.	3.0	54
16	Role of Mitochondrial Membrane Potential and Lactate Dehydrogenase A in Apoptosis. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2022, 22, 2048-2062.	1.7	50
17	A new entry into the portfolio of α -glucosidase inhibitors as potent therapeutics for type 2 diabetes: Design, bioevaluation and one-pot multi-component synthesis of diamine-bridged coumarinyl oxadiazole conjugates. <i>Bioorganic Chemistry</i> , 2018, 77, 190-202.	4.1	48
18	Coumarin-thiazole and -oxadiazole derivatives: Synthesis, bioactivity and docking studies for aldose/aldehyde reductase inhibitors. <i>Bioorganic Chemistry</i> , 2016, 68, 177-186.	4.1	46

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19	Exploration of a library of triazolothiadiazole and triazolothiadiazine compounds as a highly potent and selective family of cholinesterase and monoamine oxidase inhibitors: design, synthesis, X-ray diffraction analysis and molecular docking studies. <i>RSC Advances</i> , 2015, 5, 21249-21267.	3.6	45
20	Combined in Vitro and in Silico Studies for the Anticholinesterase Activity and Pharmacokinetics of Coumarinyl Thiazoles and Oxadiazoles. <i>Frontiers in Chemistry</i> , 2018, 6, 61.	3.6	45
21	New frontiers in the transition-metal-free synthesis of heterocycles from alkynoates: an overview and current status. <i>Organic Chemistry Frontiers</i> , 2020, 7, 3734-3791.	4.5	43
22	Facile and expedient access to bis-coumarin- α -iminothiazole hybrids by molecular hybridization approach: synthesis, molecular modelling and assessment of alkaline phosphatase inhibition, anticancer and antileishmanial potential. <i>RSC Advances</i> , 2015, 5, 89919-89931.	3.6	42
23	FLP-Catalyzed Transfer Hydrogenation of Silyl Enol Ethers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12356-12359.	13.8	41
24	Synthesis of spiroindanes by palladium-catalyzed oxidative annulation of non- or weakly activated 1,3-dienes involving C-H functionalization. <i>Chemical Communications</i> , 2015, 51, 2613-2616.	4.1	38
25	Identification of novel pyrazole- α -rhodanine hybrid scaffolds as potent inhibitors of aldose reductase: design, synthesis, biological evaluation and molecular docking analysis. <i>RSC Advances</i> , 2016, 6, 77688-77700.	3.6	38
26	Programmable late-stage C-H bond functionalization enabled by integration of enzymes with chemocatalysis. <i>Nature Catalysis</i> , 2021, 4, 385-394.	34.4	35
27	Frustrated Lewis Pair (FLP)-Catalyzed Hydrogenation of Aza-Morita-Baylis-Hillman Adducts and Sequential Organo-FLP Catalysis. <i>ACS Catalysis</i> , 2017, 7, 7748-7752.	11.2	33
28	Investigation of quinoline-4-carboxylic acid as a highly potent scaffold for the development of alkaline phosphatase inhibitors: synthesis, SAR analysis and molecular modelling studies. <i>RSC Advances</i> , 2015, 5, 64404-64413.	3.6	32
29	Building molecular complexity through transition-metal-catalyzed oxidative annulations/cyclizations: Harnessing the utility of phenols, naphthols and 1,3-dicarbonyl compounds. <i>Coordination Chemistry Reviews</i> , 2019, 380, 440-470.	18.8	31
30	Exploring biological efficacy of coumarin clubbed thiazolo[3,2-b][1,2,4]triazoles as efficient inhibitors of urease: A biochemical and in silico approach. <i>International Journal of Biological Macromolecules</i> , 2020, 142, 345-354.	7.5	31
31	Design of a novel multiple epitope-based vaccine: An immunoinformatics approach to combat SARS-CoV-2 strains. <i>Journal of Infection and Public Health</i> , 2021, 14, 938-946.	4.1	31
32	Utilization of the common functional groups in bioactive molecules: Exploring dual inhibitory potential and computational analysis of keto esters against α -glucosidase and carbonic anhydrase-II enzymes. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 233-244.	7.5	30
33	Developing new hybrid scaffold for urease inhibition based on carbazole-chalcone conjugates: Synthesis, assessment of therapeutic potential and computational docking analysis. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 115123.	3.0	28
34	New prospects for the development of selective inhibitors of α -glucosidase based on coumarin-iminothiazolidinone hybrids: Synthesis, in-vitro biological screening and molecular docking analysis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 81, 119-133.	5.3	26
35	Synthesis, Acetylcholinesterase and Alkaline Phosphatase Inhibition of Some New 1,2,4-Triazole and 1,3,4-Thiadiazole Derivatives. <i>Australian Journal of Chemistry</i> , 2012, 65, 1413.	0.9	24
36	Hybrid Quinoline-Thiosemicarbazone Therapeutics as a New Treatment Opportunity for Alzheimer's Disease-Synthesis, In Vitro Cholinesterase Inhibitory Potential and Computational Modeling Analysis. <i>Molecules</i> , 2021, 26, 6573.	3.8	24

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37	Influence of the diversified structural variations at the imine functionality of 4-bromophenylacetic acid derived hydrazones on alkaline phosphatase inhibition: synthesis and molecular modelling studies. <i>RSC Advances</i> , 2015, 5, 90806-90818.	3.6	23
38	One-pot access to a privileged library of six membered nitrogenous heterocycles through multi-component cascade approach. <i>Research on Chemical Intermediates</i> , 2016, 42, 5147-5196.	2.7	22
39	Histone Modifications and their Role in Epigenetics of Cancer. <i>Current Medicinal Chemistry</i> , 2022, 29, 2399-2411.	2.4	21
40	Exploiting the potential of aryl acetamide derived Zn(II) complexes in medicinal chemistry: synthesis, structural analysis, assessment of biological profile and molecular docking studies. <i>New Journal of Chemistry</i> , 2016, 40, 7084-7094.	2.8	20
41	Exploration of quinolone and quinoline derivatives as potential anticancer agents. <i>DARU, Journal of Pharmaceutical Sciences</i> , 2019, 27, 613-626.	2.0	20
42	One-pot four-component synthesis of thiazolidin-2-imines using CuI/ZnII dual catalysis: A new class of acetylcholinesterase inhibitors. <i>Bioorganic Chemistry</i> , 2019, 84, 518-528.	4.1	19
43	Potent Inhibitors of Cholinesterases: A Biochemical and In Silico Approach. <i>Molecules</i> , 2021, 26, 656.	3.8	19
44	New triazolothiadiazole and triazolothiadiazine derivatives as kinesin Eg5 and HIV inhibitors: synthesis, QSAR and modeling studies. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2015, 70, 47-58.	0.7	18
45	Metal complexes of tosyl sulfonamides: design, X-ray structure, biological activities and molecular docking studies. <i>RSC Advances</i> , 2015, 5, 30125-30132.	3.6	18
46	Complex electronic interplay of π -hole and σ -hole interactions in crystals of halogen substituted 1,3,4-oxadiazol-2(3H)-thiones. <i>CrystEngComm</i> , 2017, 19, 3485-3498.	2.6	18
47	Exploration of thioxothiazolidinone-sulfonate conjugates as a new class of aldehyde/aldose reductase inhibitors: A synthetic and computational investigation. <i>Bioorganic Chemistry</i> , 2017, 75, 1-15.	4.1	18
48	Exploration of aryl/heteroaryl iminothiazolines featuring 2,4,5-trichlorophenyl moiety as a new class of potent, selective, and in vitro efficacious glucosidase inhibitors. <i>Bioorganic Chemistry</i> , 2017, 74, 134-144.	4.1	18
49	Synthetic and medicinal chemistry of phthalazines: Recent developments, opportunities and challenges. <i>Bioorganic Chemistry</i> , 2020, 105, 104425.	4.1	18
50	Symmetrical aryl linked bis-iminothiazolidinones as new chemical entities for the inhibition of monoamine oxidases: Synthesis, in vitro biological evaluation and molecular modelling analysis. <i>Bioorganic Chemistry</i> , 2017, 70, 17-26.	4.1	17
51	Robust therapeutic potential of carbazole-triazine hybrids as a new class of urease inhibitors: A distinctive combination of nitrogen-containing heterocycles. <i>Bioorganic Chemistry</i> , 2020, 95, 103479.	4.1	17
52	Synthesis, inhibition studies against AChE and BChE, drug-like profiling, kinetic analysis and molecular docking studies of N-(4-phenyl-3-aryl-2(3H)-ylidene) substituted acetamides. <i>Journal of Molecular Structure</i> , 2020, 1203, 127459.	3.6	17
53	New acetylphenol-based acyl thioureas broaden the scope of drug candidates for urease inhibition: synthesis, in vitro screening and in silico analysis. <i>International Journal of Biological Macromolecules</i> , 2022, 198, 157-167.	7.5	17
54	Alkynoates as Versatile and Powerful Chemical Tools for the Rapid Assembly of Diverse Heterocycles under Transition-Metal Catalysis: Recent Developments and Challenges. <i>Topics in Current Chemistry</i> , 2021, 379, 3.	5.8	16

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55	Preparation, Characterization, and Pharmacological Investigation of Withaferin-A Loaded Nanosponges for Cancer Therapy; In Vitro, In Vivo and Molecular Docking Studies. <i>Molecules</i> , 2021, 26, 6990.	3.8	16
56	Quinolinic Carboxylic Acid Derivatives as Potential Multi-target Compounds for Neurodegeneration: Monoamine Oxidase and Cholinesterase Inhibition. <i>Medicinal Chemistry</i> , 2018, 14, 74-85.	1.5	15
57	A combined experimental and theoretical analysis of the solid-state supramolecular self-assembly of N-(2,4-dichlorophenyl)-1-naphthamide: Synthesis, anticholinesterase potential and molecular docking analysis. <i>Journal of Molecular Structure</i> , 2019, 1197, 458-470.	3.6	15
58	Synthesis, crystal structure and β -glucuronidase inhibition activity of some new hydrazinecarboxamides and their 1,2,4-triazole derivatives. <i>Medicinal Chemistry Research</i> , 2012, 21, 3885-3896.	2.4	14
59	A comparative experimental and theoretical investigation of hydrogen-bond, halogen-bond and π - π interactions in the solid-state supramolecular assembly of 2- and 4-formylphenyl arylsulfonates. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018, 74, 816-829.	0.5	12
60	Diverse structural assemblies of U-shaped hydrazinyl-sulfonamides: experimental and theoretical analysis of non-covalent interactions stabilizing solid state conformations. <i>CrystEngComm</i> , 2019, 21, 1780-1793.	2.6	12
61	Discovery of urease inhibitory effect of sulfamate derivatives: Biological and computational studies. <i>Bioorganic Chemistry</i> , 2022, 119, 105545.	4.1	12
62	Synthesis and supramolecular self-assembly of thioxothiazolidinone derivatives driven by H-bonding and diverse π -hole interactions: A combined experimental and theoretical analysis. <i>Journal of Molecular Structure</i> , 2017, 1139, 209-221.	3.6	11
63	Probing the high potency of pyrazolyl pyrimidinetriones and thioxopyrimidinediones as selective and efficient non-nucleotide inhibitors of recombinant human ectonucleotidases. <i>Bioorganic Chemistry</i> , 2019, 88, 102893.	4.1	11
64	Similarities and differences in the crystal packing of methoxybenzyl and methoxyphenylethyl-1,3,4-oxadiazole-2(3H)-thiones. <i>CrystEngComm</i> , 2014, 16, 164-174.	2.6	10
65	Inhibition of Angiotensin-I Converting Enzyme by Ginsenosides: Structure-Activity Relationships and Inhibitory Mechanism. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 6073-6086.	5.2	10
66	CRISPR-Cas9 Genome Engineering: Trends in Medicine and Health. <i>Mini-Reviews in Medicinal Chemistry</i> , 2022, 22, 410-421.	2.4	10
67	Synthesis, X-ray characterization, Hirshfeld surface analysis and DFT calculations on tetrazolyl-phenol derivatives: H-bonds vs π - π interactions. <i>Journal of Molecular Structure</i> , 2021, 1227, 129425.	3.6	9
68	Fabrication and Biological Assessment of Antidiabetic β -Mangostin Loaded Nanosponges: In Vitro, In Vivo, and In Silico Studies. <i>Molecules</i> , 2021, 26, 6633.	3.8	9
69	Fabrication and Evaluation of Voriconazole Loaded Transethosomal Gel for Enhanced Antifungal and Antileishmanial Activity. <i>Molecules</i> , 2022, 27, 3347.	3.8	9
70	Theoretical and computational insight into the supramolecular assemblies of Schiff bases involving hydrogen bonding and C-H \cdots π interactions: Synthesis, X-ray characterization, Hirshfeld surface analysis, anticancer activity and molecular docking analysis. <i>Journal of Molecular Structure</i> , 2021, 1235, 130223.	3.6	8
71	Inhibition of Aldose Reductase by Ginsenoside Derivatives via a Specific Structure Activity Relationship with Kinetics Mechanism and Molecular Docking Study. <i>Molecules</i> , 2022, 27, 2134.	3.8	8
72	Simple and Efficient One-Pot Synthesis, Spectroscopic Characterization and Crystal Structure of Methyl 5-(4-Chlorobenzoyloxy)-1-phenyl-1H-pyrazole-3-carboxylate. <i>Crystals</i> , 2012, 2, 967-973.	2.2	7

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73	FLPâ€Catalyzed Transfer Hydrogenation of Silyl Enol Ethers. <i>Angewandte Chemie</i> , 2018, 130, 12536-12539.	2.0	7
74	Synthesis and Molecular Structure of (E)-Methyl 3-(2-Hydroxyphenyl)-2-(Piperidine-1-Carbonyl) Acrylate Stabilized by Hydrogen Bonding and C-Hâ€¦ interactions. <i>Physical Review & Research International</i> , 2013, 3, 666-673.	0.2	7
75	Ethyl 2,6-Dimethoxybenzoate: Synthesis, Spectroscopic and X-ray Crystallographic Analysis. <i>Crystals</i> , 2012, 2, 521-527.	2.2	6
76	Investigation of solid state architectures in tetrazolyl tryptophol stabilized by crucial aromatic interactions and hydrogen bonding: Experimental and theoretical analysis. <i>Journal of Molecular Structure</i> , 2022, 1262, 133079.	3.6	6
77	Recent Advances in the Sustainable Synthesis of Quinazolines Using Earth-Abundant First Row Transition Metals. <i>Current Organic Chemistry</i> , 2020, 24, 1775-1792.	1.6	5
78	Centroidâ€¦centroid and hydrogen bond interactions as robust supramolecular units for crystal engineering: X-ray crystallographic, computational and urease inhibitory investigations of 1,2,4-triazolo[3,4-a]phthalazines. <i>CrystEngComm</i> , 0, , .	2.6	5
79	2-(4-Methylphenyl)-2-oxoethyl 3-bromobenzoate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o3465-o3465.	0.2	4
80	Antiproliferative and Pro-Apoptotic Effects of Thiazolo[3,2â€¦b][1,2,4]triazoles in Breast and Cervical Cancer Cells. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2021, 21, 2181-2191.	1.7	3
81	New Hybrid Scaffolds Based on Carbazole-Chalcones as Potent Anticancer Agents. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2021, 21, 1082-1091.	1.7	3
82	Editorial: Chemical Insights Into the Synthetic Chemistry of Quinazolines and Quinazolinones: Recent Advances. <i>Frontiers in Chemistry</i> , 2020, 8, 641321.	3.6	2
83	Machine Intelligence Techniques for the Identification and Diagnosis of COVID-19. <i>Current Medicinal Chemistry</i> , 2021, 28, 5268-5283.	2.4	2
84	Nanomedicines Targeting Heat Shock Protein 90 Gene Expression in the Therapy of Breast Cancer. <i>ChemistrySelect</i> , 2022, 7, .	1.5	2
85	Crystal structure of 2-(4-chlorophenyl)-2-oxoethyl 3-bromobenzoate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, 301-304.	0.2	1
86	Antimicrobial profile of some novel keto esters: Synthesis, crystal structures and structure-activity relationship studies. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2016, 29, 39-49.	0.2	1
87	Antiproliferative and Proapoptotic Effect of <i>Daucus carota</i> in Cervical Cancer Cells: An <i>In Vitro</i> Approach. <i>ChemistrySelect</i> , 2022, 7, .	1.5	1
88	Preventive and Therapeutic Features of Combination Therapy for HIV. <i>Frontiers in Clinical Drug Research - HIV</i> , 2021, , 175-202.	0.0	0
89	Green Strategies for Sustainable Câ€H Bond Functionalizations. <i>Current Organic Chemistry</i> , 2021, 25, 2909-2911.	1.6	0
90	Evaluation of indole-picolinamide hybrid molecules as carbonic anhydrase-II inhibitors: Biological and computational studies. <i>Journal of Molecular Structure</i> , 2022, , 133048.	3.6	0

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91	Rational Design of Anti-Epileptic Peptides to Inhibit MAPK/MKP2 Interactions for Epilepsy Therapeutics ^{**} . ChemistrySelect, 2022, 7, .	1.5	0