

Md Tabish Rehman

List of Publications by Year in descending order

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107
papers

4,196
citations

94269

37
h-index

138251

58
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112
all docs

112
docs citations

112
times ranked

5010
citing authors

#	ARTICLE	IF	CITATIONS
1	Insight into the Binding Mechanism of Imipenem to Human Serum Albumin by Spectroscopic and Computational Approaches. <i>Molecular Pharmaceutics</i> , 2014, 11, 1785-1797.	2.3	191
2	Copper(II) complexes as potential anticancer and Nonsteroidal anti-inflammatory agents: In vitro and in vivo studies. <i>Scientific Reports</i> , 2019, 9, 5237.	1.6	171
3	Biogenesis of ZnO nanoparticles using <i>Pandanus odorifer</i> leaf extract: anticancer and antimicrobial activities. <i>RSC Advances</i> , 2019, 9, 15357-15369.	1.7	166
4	Transcriptional firing helps to drive NETosis. <i>Scientific Reports</i> , 2017, 7, 41749.	1.6	163
5	Neutrophil Extracellular Trap Formation: Physiology, Pathology, and Pharmacology. <i>Biomolecules</i> , 2019, 9, 365.	1.8	151
6	JNK Activation Turns on LPS- and Gram-Negative Bacteria-Induced NADPH Oxidase-Dependent Suicidal NETosis. <i>Scientific Reports</i> , 2017, 7, 3409.	1.6	130
7	Biogenic synthesis of Zinc oxide nanostructures from <i>Nigella sativa</i> seed: Prospective role as food packaging material inhibiting broad-spectrum quorum sensing and biofilm. <i>Scientific Reports</i> , 2016, 6, 36761.	1.6	128
8	Alpha-Amylase and Alpha-Glucosidase Enzyme Inhibition and Antioxidant Potential of 3-Oxolupenal and Katonic Acid Isolated from <i>Nuxia oppositifolia</i> . <i>Biomolecules</i> , 2020, 10, 61.	1.8	110
9	Molecular insight into binding behavior of polyphenol (rutin) with beta lactoglobulin: Spectroscopic, molecular docking and MD simulation studies. <i>Journal of Molecular Liquids</i> , 2018, 269, 511-520.	2.3	107
10	Alkaline pH Promotes NADPH Oxidase-Independent Neutrophil Extracellular Trap Formation: A Matter of Mitochondrial Reactive Oxygen Species Generation and Citrullination and Cleavage of Histone. <i>Frontiers in Immunology</i> , 2018, 8, 1849.	2.2	90
11	Anti-oxidant and anti-inflammatory effects of cinnamaldehyde and eugenol on mononuclear cells of rheumatoid arthritis patients. <i>European Journal of Pharmacology</i> , 2019, 852, 14-24.	1.7	88
12	Biosynthesized Silver Nanoparticle (AgNP) From <i>Pandanus odorifer</i> Leaf Extract Exhibits Anti-metastasis and Anti-biofilm Potentials. <i>Frontiers in Microbiology</i> , 2019, 10, 8.	1.5	83
13	Plant-derived antiviral drugs as novel hepatitis B virus inhibitors: Cell culture and molecular docking study. <i>Saudi Pharmaceutical Journal</i> , 2019, 27, 389-400.	1.2	81
14	Pharmacoinformatics approach for the identification of Polo-like kinase-1 inhibitors from natural sources as anti-cancer agents. <i>International Journal of Biological Macromolecules</i> , 2018, 116, 173-181.	3.6	79
15	Evaluation of ellagic acid as an inhibitor of sphingosine kinase 1: A targeted approach towards anticancer therapy. <i>Biomedicine and Pharmacotherapy</i> , 2019, 118, 109245.	2.5	78
16	MARK4 Inhibited by AChE Inhibitors, Donepezil and Rivastigmine Tartrate: Insights into Alzheimer's Disease Therapy. <i>Biomolecules</i> , 2020, 10, 789.	1.8	76
17	Treatment of nitric oxide supplemented with nitrogen and sulfur regulates photosynthetic performance and stomatal behavior in mustard under salt stress. <i>Physiologia Plantarum</i> , 2020, 168, 490-510.	2.6	73
18	Histone Acetylation Promotes Neutrophil Extracellular Trap Formation. <i>Biomolecules</i> , 2019, 9, 32.	1.8	71

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19	Design and development of Isatin-triazole hydrazones as potential inhibitors of microtubule affinity-regulating kinase 4 for the therapeutic management of cell proliferation and metastasis. <i>European Journal of Medicinal Chemistry</i> , 2019, 163, 840-852.	2.6	69
20	Progression of Cystic Fibrosis Lung Disease from Childhood to Adulthood: Neutrophils, Neutrophil Extracellular Trap (NET) Formation, and NET Degradation. <i>Genes</i> , 2019, 10, 183.	1.0	65
21	Interaction of meropenem with α -N α ™ and α -B α ™ isoforms of human serum albumin: a spectroscopic and molecular docking study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2016, 34, 1849-1864.	2.0	62
22	Molecular interaction of tea catechin with bovine β -lactoglobulin: A spectroscopic and in silico studies. <i>Saudi Pharmaceutical Journal</i> , 2020, 28, 238-245.	1.2	59
23	High-Throughput Virtual Screening, Molecular Dynamics Simulation, and Enzyme Kinetics Identified ZINC84525623 as a Potential Inhibitor of NDM-1. <i>International Journal of Molecular Sciences</i> , 2019, 20, 819.	1.8	55
24	Ethephon mitigates nickel stress by modulating antioxidant system, glyoxalase system and proline metabolism in Indian mustard. <i>Physiology and Molecular Biology of Plants</i> , 2020, 26, 1201-1213.	1.4	54
25	ROS induces NETosis by oxidizing DNA and initiating DNA repair. <i>Cell Death Discovery</i> , 2021, 7, 113.	2.0	54
26	Structural Analysis and Conformational Dynamics of STN1 Gene Mutations Involved in Coat Plus Syndrome. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 41.	1.6	53
27	Insight of the Interaction between 2,4-thiazolidinedione and Human Serum Albumin: A Spectroscopic, Thermodynamic and Molecular Docking Study. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2727.	1.8	51
28	Two-in-one: UV radiation simultaneously induces apoptosis and NETosis. <i>Cell Death Discovery</i> , 2018, 4, 51.	2.0	50
29	Antibacterial Silver Nanomaterial Synthesis From <i>Mesoflavibacter zeaxanthinifaciens</i> and Targeting Biofilm Formation. <i>Frontiers in Pharmacology</i> , 2019, 10, 801.	1.6	50
30	Biochemical Characterization of CTX-M-15 from <i>Enterobacter cloacae</i> and Designing a Novel Non- β -Lactam- β -Lactamase Inhibitor. <i>PLoS ONE</i> , 2013, 8, e56926.	1.1	48
31	Regulating NETosis: Increasing pH Promotes NADPH Oxidase-Dependent NETosis. <i>Frontiers in Medicine</i> , 2018, 5, 19.	1.2	48
32	Unraveling Binding Mechanism of Alzheimer's Drug Rivastigmine Tartrate with Human Transferrin: Molecular Docking and Multi-Spectroscopic Approach towards Neurodegenerative Diseases. <i>Biomolecules</i> , 2019, 9, 495.	1.8	46
33	Identification and evaluation of glutathione conjugate gamma-glutamyl-cysteine for improved drug delivery to the brain. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 3610-3620.	2.0	46
34	Onion Peel Ethylacetate Fraction and Its Derived Constituent Quercetin 4-O- β -D Glucopyranoside Attenuates Quorum Sensing Regulated Virulence and Biofilm Formation. <i>Frontiers in Microbiology</i> , 2017, 8, 1675.	1.5	45
35	Functional implications of pH-induced conformational changes in the Sphingosine kinase 1. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 225, 117453.	2.0	44
36	Hypertonic Saline Suppresses NADPH Oxidase-Dependent Neutrophil Extracellular Trap Formation and Promotes Apoptosis. <i>Frontiers in Immunology</i> , 2018, 9, 359.	2.2	43

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37	Exogenously-Sourced Ethylene Modulates Defense Mechanisms and Promotes Tolerance to Zinc Stress in Mustard (<i>Brassica juncea</i> L.). <i>Plants</i> , 2019, 8, 540.	1.6	43
38	Secretoglobulin 1A1 and 1A1A Differentially Regulate Neutrophil Reactive Oxygen Species Production, Phagocytosis and Extracellular Trap Formation. <i>PLoS ONE</i> , 2014, 9, e96217.	1.1	40
39	Identification of Potential Inhibitors of Calcium/Calmodulin-Dependent Protein Kinase IV from Bioactive Phytoconstituents. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-14.	1.9	39
40	Identification of Sphingosine Kinase-1 Inhibitors from Bioactive Natural Products Targeting Cancer Therapy. <i>ACS Omega</i> , 2020, 5, 14720-14729.	1.6	38
41	Role of Non-Active-Site Residue Trp-93 in the Function and Stability of New Delhi Metallo- β -Lactamase 1. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 356-360.	1.4	35
42	Hesperidin α -CAMKIV interaction and its impact on cell proliferation and apoptosis in the human hepatic carcinoma and neuroblastoma cells. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 15119-15130.	1.2	33
43	Nitric Oxide Enhances Photosynthetic Nitrogen and Sulfur-Use Efficiency and Activity of Ascorbate-Glutathione Cycle to Reduce High Temperature Stress-Induced Oxidative Stress in Rice (<i>Oryza sativa</i> L.) Plants. <i>Biomolecules</i> , 2021, 11, 305.	1.8	33
44	Evaluation of Transition Metal Complexes of Benzimidazole-Derived Scaffold as Promising Anticancer Chemotherapeutics. <i>Molecules</i> , 2018, 23, 1232.	1.7	32
45	Investigation of deleterious effects of nsSNPs in the <i>POT1</i> gene: a structural genomics-based approach to understand the mechanism of cancer development. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 10281-10294.	1.2	32
46	Orchestration of Neutrophil Extracellular Traps (Nets), a Unique Innate Immune Function during Chronic Obstructive Pulmonary Disease (COPD) Development. <i>Biomedicines</i> , 2021, 9, 53.	1.4	32
47	Effect of cetyltrimethylammonium bromide (CTAB) on the conformation of a hen egg white lysozyme: A spectroscopic and molecular docking study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 219, 313-318.	2.0	30
48	In silico screening of glycogen synthase kinase-3 β targeted ligands against acetylcholinesterase and its probable relevance to Alzheimer's disease. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 5083-5092.	2.0	30
49	Complement Activation Induces Neutrophil Adhesion and Neutrophil-Platelet Aggregate Formation on Vascular Endothelial Cells. <i>Kidney International Reports</i> , 2017, 2, 66-75.	0.4	29
50	Impaired Resolution of Inflammation in the <i>Endoglin</i> Heterozygous Mouse Model of Chronic Colitis. <i>Mediators of Inflammation</i> , 2014, 2014, 1-13.	1.4	28
51	Design, Synthesis, and Biological Evaluation of Benzimidazole-Derived Biocompatible Copper(II) and Zinc(II) Complexes as Anticancer Chemotherapeutics. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1492.	1.8	28
52	Concatenation of molecular docking and molecular simulation of BACE-1, β -secretase targeted ligands: in pursuit of Alzheimer's treatment. <i>Annals of Medicine</i> , 2021, 53, 2332-2344.	1.5	28
53	Seed Extract of <i>Psoralea corylifolia</i> and Its Constituent Bakuchiol Impairs AHL-Based Quorum Sensing and Biofilm Formation in Food- and Human-Related Pathogens. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 351.	1.8	27
54	Understanding the Interaction Between Human Serum Albumin and Anti-Bacterial/ Anti-Cancer Compounds. <i>Current Pharmaceutical Design</i> , 2015, 21, 1785-1799.	0.9	25

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55	Characterization of colchicine binding with normal and glycosylated albumin: <i>in vitro</i> and molecular docking analysis. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 3453-3462.	2.0	23
56	Antidiabetic, antioxidant, molecular docking and HPTLC analysis of miquelianin isolated from <i>Euphorbia schimperii</i> C. Presl. <i>Saudi Pharmaceutical Journal</i> , 2019, 27, 655-663.	1.2	23
57	Molecular interactions of food additive dye quinoline yellow (Qy) with alpha-lactalbumin: Spectroscopic and computational studies. <i>Journal of Molecular Liquids</i> , 2020, 311, 113215.	2.3	23
58	Furanoid F-Acid F6 Uniquely Induces NETosis Compared to C16 and C18 Fatty Acids in Human Neutrophils. <i>Biomolecules</i> , 2018, 8, 144.	1.8	22
59	Identification of high-affinity inhibitors of pyruvate dehydrogenase kinase-3: towards therapeutic management of cancer. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 586-594.	2.0	22
60	An insight into the biophysical characterization of different states of cefotaxime hydrolyzing β -lactamase 15 (CTX-M-15). <i>Journal of Biomolecular Structure and Dynamics</i> , 2015, 33, 625-638.	2.0	21
61	Rutin attenuates negatively charged surfactant (SDS)-induced lysozyme aggregation/amyloid formation and its cytotoxicity. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 45-58.	3.6	21
62	Food additive dye (quinoline yellow) promotes unfolding and aggregation of myoglobin: A spectroscopic and molecular docking analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 214, 216-226.	2.0	21
63	Anthracyclines Suppress Both NADPH Oxidase- Dependent and -Independent NETosis in Human Neutrophils. <i>Cancers</i> , 2019, 11, 1328.	1.7	20
64	Antiviral potential of some novel structural analogs of standard drugs repurposed for the treatment of COVID-19. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 6676-6688.	2.0	20
65	Non-enzymatic glycation of protein induces cancer cell proliferation and its inhibition by quercetin: Spectroscopic, cytotoxicity and molecular docking studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 777-786.	2.0	18
66	Phage Display Technique: A Novel Medicinal Approach to Overcome Antibiotic Resistance by Using Peptide-Based Inhibitors Against β -Lactamases. <i>Current Drug Metabolism</i> , 2017, 18, 90-95.	0.7	18
67	Investigating architecture and structure-function relationships in cold shock DNA-binding domain family using structural genomics-based approach. <i>International Journal of Biological Macromolecules</i> , 2019, 133, 484-494.	3.6	17
68	Structural and functional impact of non-synonymous SNPs in the CST complex subunit TEN1: structural genomics approach. <i>Bioscience Reports</i> , 2019, 39, .	1.1	17
69	Box-Cox Design (BBD)-Based Optimization of Microwave-Assisted Extraction of Parthenolide from the Stems of <i>Tarconanthus camphoratus</i> and Cytotoxic Analysis. <i>Molecules</i> , 2021, 26, 1876.	1.7	17
70	Functional Role of Glutamine 28 and Arginine 39 in Double Stranded RNA Cleavage by Human Pancreatic Ribonuclease. <i>PLoS ONE</i> , 2011, 6, e17159.	1.1	16
71	Interspecies Anticancer and Antimicrobial Activities of Genus <i>Solanum</i> and Estimation of Rutin by Validated UPLC-PDA Method. <i>Evidence-based Complementary and Alternative Medicine</i> , 2018, 2018, 1-13.	0.5	15
72	Understanding the interaction between β -1-acid glycoprotein (AGP) and potential Cu/Zn metallo-drugs of benzimidazole derived organic motifs: A multi-spectroscopic and molecular docking study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 225, 117457.	2.0	15

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73	Insights into the Conserved Regulatory Mechanisms of Human and Yeast Aging. <i>Biomolecules</i> , 2020, 10, 882.	1.8	15
74	mTOR Targeted Cancer Chemoprevention by Flavonoids. <i>Current Medicinal Chemistry</i> , 2021, 28, 8068-8082.	1.2	15
75	Exploring the Binding Pattern of Geraniol with Acetylcholinesterase through In Silico Docking, Molecular Dynamics Simulation, and In Vitro Enzyme Inhibition Kinetics Studies. <i>Cells</i> , 2021, 10, 3533.	1.8	15
76	Production of Biodegradable Polymer from Agro-Wastes in <i>Alcaligenes</i> sp. and <i>Pseudomonas</i> sp.. <i>Molecules</i> , 2021, 26, 2443.	1.7	14
77	Non-enzymatic Glycation of Almond Cystatin Leads to Conformational Changes and Altered Activity. <i>Protein and Peptide Letters</i> , 2015, 22, 449-459.	0.4	14
78	Design and Development of Novel Urea, Sulfonylurea, and Sulfonamide Derivatives as Potential Inhibitors of Sphingosine Kinase 1. <i>Pharmaceuticals</i> , 2020, 13, 118.	1.7	13
79	Quinoline yellow (food additive) induced conformational changes in lysozyme: a spectroscopic, docking and simulation studies of dye-protein interactions. <i>Preparative Biochemistry and Biotechnology</i> , 2020, 50, 673-681.	1.0	13
80	1,2,3-Triazole-quinazolin-4(3H)-one conjugates: evolution of ergosterol inhibitor as anticandidal agent. <i>RSC Advances</i> , 2018, 8, 39611-39625.	1.7	12
81	Spectroscopic and Molecular Docking Investigation on the Interaction of Cumin Components with Plasma Protein: Assessment of the Comparative Interactions of Aldehyde and Alcohol with Human Serum Albumin. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4078.	1.8	12
82	Food color Azorubine™ interferes with quorum sensing regulated functions and obliterates biofilm formed by food associated bacteria: An in vitro and in silico approach. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 1080-1090.	1.8	11
83	Insignificant β -lactamase activity of human serum albumin: no panic to nonmicrobial-based drug resistance. <i>Letters in Applied Microbiology</i> , 2013, 57, 325-329.	1.0	10
84	Al (III) metal augment thermal aggregation and fibrillation in protein: Role of metal toxicity in neurological diseases. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 2221-2226.	1.8	10
85	Soyasapogenol-B as a Potential Multitarget Therapeutic Agent for Neurodegenerative Disorders: Molecular Docking and Dynamics Study. <i>Entropy</i> , 2022, 24, 593.	1.1	10
86	Furanoic Lipid F-6, A Novel Anti-Cancer Compound that Kills Cancer Cells by Suppressing Proliferation and Inducing Apoptosis. <i>Cancers</i> , 2019, 11, 960.	1.7	9
87	Biofilm inhibition and DNA binding studies of isoxazole-triazole conjugates in the development of effective anti-bacterial agents. <i>Journal of Molecular Structure</i> , 2020, 1201, 127144.	1.8	9
88	Structural and functional studies on a variant of cystatin purified from brain of <i>Capra hircus</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 1693-1709.	2.0	8
89	Quinoline yellow dye stimulates whey protein fibrillation via electrostatic and hydrophobic interaction: A biophysical study. <i>Journal of Dairy Science</i> , 2021, 104, 5141-5151.	1.4	8
90	Impact of repurposed drugs on the symptomatic COVID-19 patients. <i>Journal of Infection and Public Health</i> , 2021, 14, 24-38.	1.9	8

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91	The influence of variations of furanosesquiterpenoids content of commercial samples of myrrh on their biological properties. <i>Saudi Pharmaceutical Journal</i> , 2019, 27, 981-989.	1.2	7
92	Potential Mechanism of Dermal Wound Treatment With Preparations From the Skin Gel of Arabian Gulf Catfish: A Unique Furan Fatty Acid (F6) and Cholesta-3,5-Diene (S5) Recruit Neutrophils and Fibroblasts to Promote Wound Healing. <i>Frontiers in Pharmacology</i> , 2020, 11, 899.	1.6	7
93	Elucidation of molecular interactions of theaflavin monogallate with camel milk lactoferrin: detailed spectroscopic and dynamic simulation studies. <i>RSC Advances</i> , 2021, 11, 26710-26720.	1.7	7
94	Antimicrobial Activity of Dihydroisocoumarin Isolated from Wadi Lajab Sediment-Derived Fungus <i>Penicillium chrysogenum</i> : In Vitro and In Silico Study. <i>Molecules</i> , 2022, 27, 3630.	1.7	7
95	Salt Potentiates Methylamine Counteraction System to Offset the Deleterious Effects of Urea on Protein Stability and Function. <i>PLoS ONE</i> , 2015, 10, e0119597.	1.1	6
96	Industrially important enzyme bovine liver catalase forms amyloid in the presence of 14-4-14 Gemini surfactant at physiological pH. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125909.	2.3	6
97	Cell proliferation activity delineated by molecular docking of four new compounds isolated from the aerial parts of <i>Suaeda monoica</i> Forssk. ex. J.F. Gmel. <i>Saudi Pharmaceutical Journal</i> , 2020, 28, 172-186.	1.2	5
98	Celecoxib, Glipizide, Lapatinib, and Sitagliptin as potential suspects of aggravating SARS-CoV-2 (COVID-19) infection: a computational approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 13747-13758.	2.0	5
99	Biophysical interactions, docking studies and cytotoxic potential of a novel propofol-linolenate: a multi-technique approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 2389-2401.	2.0	4
100	Oncoglabrinol C, a new flavan from <i>Oncocalyx glabratus</i> protects endothelial cells against oxidative stress and apoptosis, and modulates hepatic CYP3A4 activity. <i>Saudi Pharmaceutical Journal</i> , 2020, 28, 648-656.	1.2	4
101	A New Cytotoxic Dimeric Sesquiterpene Isolated from <i>Inula racemosa</i> Hook. f. (Root): In Vitro and In Silico Analyses. <i>Separations</i> , 2021, 8, 2.	1.1	4
102	Development and validation of UPLC-PDA method for concurrent analysis of bergenin and menisdaurin in aerial parts of <i>Flueggea virosa</i> (Roxb. ex Willd.). <i>Saudi Pharmaceutical Journal</i> , 2018, 26, 970-976.	1.2	3
103	Investigating the structural features of chromodomain proteins in the human genome and predictive impacts of their mutations in cancers. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 1101-1116.	3.6	2
104	Preimplantation Endometrial Transcriptomics in Natural Conception Cycle of the Rhesus Monkey. <i>Reproductive Medicine</i> , 2022, 3, 16-35.	0.3	2
105	Glycation induced conformational transitions in cystatin proceed to form biotoxic aggregates: A multidimensional analysis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 989-1000.	1.1	1
106	Comparing and Contrasting MERS, SARS-CoV, and SARS-CoV-2: Prevention, Transmission, Management, and Vaccine Development. <i>Pathogens</i> , 2020, 9, 985.	1.2	1
107	L-Asparagine Modulates Macrophage Polarization to an M2 Phenotype in a Model of Lipopolysaccharide-Induced Lung Injury in Neonatal Rats. <i>FASEB Journal</i> , 2022, 36, .	0.2	0