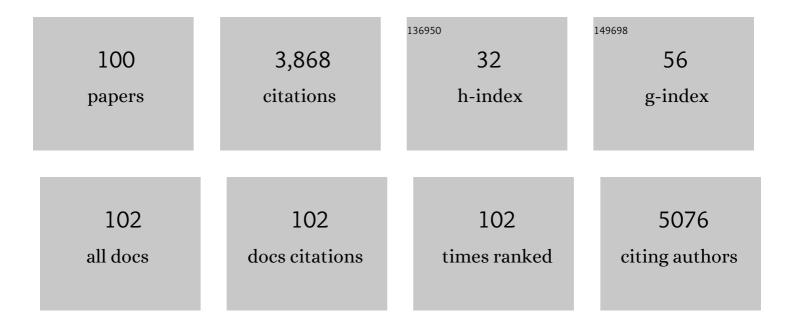
Mojtaba Falahati

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A review on the cleavage priming of the spike protein on coronavirus by angiotensin-converting enzyme-2 and furin. Journal of Biomolecular Structure and Dynamics, 2021, 39, 3025-3033.	3.5	230
2	Health Concerns of Various Nanoparticles: A Review of Their in Vitro and in Vivo Toxicity. Nanomaterials, 2018, 8, 634.	4.1	210
3	Plasmonic gold nanoparticles: Optical manipulation, imaging, drug delivery and therapy. Journal of Controlled Release, 2019, 311-312, 170-189.	9.9	195
4	Electrospun chitosan membranes containing bioactive and therapeutic agents for enhanced wound healing. International Journal of Biological Macromolecules, 2020, 156, 153-170.	7.5	171
5	Cancer diagnosis using nanomaterials based electrochemical nanobiosensors. Biosensors and Bioelectronics, 2019, 126, 773-784.	10.1	146
6	Interaction of single and multi wall carbon nanotubes with the biological systems: tau protein and PC12 cells as targets. Scientific Reports, 2016, 6, 26508.	3.3	111
7	Gold nanoparticles fabrication by plant extracts: synthesis, characterization, degradation of 4-nitrophenol from industrial wastewater, and insecticidal activity – A review. Journal of Cleaner Production, 2018, 184, 740-753.	9.3	111
8	Nanozymes with intrinsic peroxidase-like activities. Journal of Molecular Liquids, 2019, 278, 130-144.	4.9	110
9	Enzyme immobilization onto the nanomaterials: Application in enzyme stability and prodrug-activated cancer therapy. International Journal of Biological Macromolecules, 2020, 143, 665-676.	7.5	89
10	Gold nanomaterials as key suppliers in biological and chemical sensing, catalysis, and medicine. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129435.	2.4	86
11	Gold nanozyme: Biosensing and therapeutic activities. Materials Science and Engineering C, 2020, 108, 110422.	7.3	83
12	Thermodynamic and conformational changes of protein toward interaction with nanoparticles: a spectroscopic overview. RSC Advances, 2016, 6, 105903-105919.	3.6	79
13	A health concern regarding the protein corona, aggregation and disaggregation. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 971-991.	2.4	71
14	Investigating the Interaction of Fe Nanoparticles with Lysozyme by Biophysical and Molecular Docking Studies. PLoS ONE, 2016, 11, e0164878.	2.5	70
15	Targeting SARS-CoV2 Spike Protein Receptor Binding Domain by Therapeutic Antibodies. Biomedicine and Pharmacotherapy, 2020, 130, 110559.	5.6	64
16	Spectroscopic studies of interaction between CuO nanoparticles and bovine serum albumin. Journal of Biomolecular Structure and Dynamics, 2016, 34, 1962-1968.	3.5	54
17	Aminopropyl-functionalized cubic Ia3d mesoporous silica nanoparticle as an efficient support for immobilization of superoxide dismutase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1195-1202.	2.3	53
18	Plasmonic and chiroplasmonic nanobiosensors based on gold nanoparticles. Talanta, 2020, 212, 120782.	5.5	52

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19	Polymeric-based microneedle arrays as potential platforms in the development of drugs delivery systems. Journal of Advanced Research, 2020, 26, 137-147.	9.5	50
20	Albumin binding and anticancer effect of magnesium oxide nanoparticles. International Journal of Nanomedicine, 2019, Volume 14, 257-270.	6.7	49
21	Nanozyme-based sensing platforms for detection of toxic mercury ions: An alternative approach to conventional methods. Talanta, 2020, 215, 120939.	5.5	48
22	Involvement of planned cell death of necroptosis in cancer treatment by nanomaterials: Recent advances and future perspectives. Journal of Controlled Release, 2019, 299, 121-137.	9.9	47
23	<p>Cerium oxide NPs mitigate the amyloid formation of α-synuclein and associated cytotoxicity</p> . International Journal of Nanomedicine, 2019, Volume 14, 6989-7000.	6.7	44
24	Combined chemo-magneticÂfield-photothermal breast cancer therapy based on porous magnetite nanospheres. Scientific Reports, 2020, 10, 5925.	3.3	44
25	Development of point-of-care nanobiosensors for breast cancers diagnosis. Talanta, 2020, 217, 121091.	5.5	40
26	Antimetastatic Activity of Lactoferrin-Coated Mesoporous Maghemite Nanoparticles in Breast Cancer Enabled by Combination Therapy. ACS Biomaterials Science and Engineering, 2020, 6, 3574-3584.	5.2	39
27	Investigating the Interaction of Silicon Dioxide Nanoparticles with Human Hemoglobin and Lymphocyte Cells by Biophysical, Computational, and Cellular Studies. Journal of Physical Chemistry B, 2018, 122, 4278-4288.	2.6	36
28	Diagnostic and drug release systems based on microneedle arrays in breast cancer therapy. Journal of Controlled Release, 2021, 338, 341-357.	9.9	36
29	Novel therapeutic strategies for Alzheimer's disease: Implications from cell-based therapy and nanotherapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 24, 102149.	3.3	35
30	Nitric oxide-releasing biomaterials for promoting wound healing in impaired diabetic wounds: State of the art and recent trends. Biomedicine and Pharmacotherapy, 2022, 149, 112707.	5.6	35
31	Probing the conformational changes and peroxidase-like activity of cytochrome c upon interaction with iron nanoparticles. Journal of Biomolecular Structure and Dynamics, 2017, 35, 2565-2577.	3.5	34
32	<p>α-synuclein interaction with zero-valent iron nanoparticles accelerates structural rearrangement into amyloid-susceptible structure with increased cytotoxic tendency</p> . International Journal of Nanomedicine, 2019, Volume 14, 4637-4648.	6.7	33
33	Magnetic nanocatalysts as multifunctional platforms in cancer therapy through the synthesis of anticancer drugs and facilitated Fenton reaction. Journal of Advanced Research, 2021, 30, 171-184.	9.5	33
34	Studies on the interaction between nanodiamond and human hemoglobin by surface tension measurement and spectroscopy methods. Journal of Biomolecular Structure and Dynamics, 2017, 35, 603-615.	3.5	32
35	Albumin binding, anticancer and antibacterial properties of synthesized zero valent iron nanoparticles. International Journal of Nanomedicine, 2019, Volume 14, 243-256.	6.7	32
36	An Updated Review on EPR-Based Solid Tumor Targeting Nanocarriers for Cancer Treatment. Cancers, 2022. 14. 2868.	3.7	32

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37	Exosomes: Multiple-targeted multifunctional biological nanoparticles in the diagnosis, drug delivery, and imaging of cancer cells. Biomedicine and Pharmacotherapy, 2020, 129, 110442.	5.6	31
38	Gold Nanoparticle-Based Platforms for Diagnosis and Treatment of Myocardial Infarction. ACS Biomaterials Science and Engineering, 2020, 6, 6460-6477.	5.2	30
39	Development of remdesivir repositioning as a nucleotide analog against COVID-19 RNA dependent RNA polymerase. Journal of Biomolecular Structure and Dynamics, 2021, 39, 3771-3779.	3.5	30
40	Interaction of iron nanoparticles with nervous system: an <i>in vitro</i> study. Journal of Biomolecular Structure and Dynamics, 2018, 36, 928-937.	3.5	29
41	The effect of functionalization of mesoporous silica nanoparticles on the interaction and stability of confined enzyme. International Journal of Biological Macromolecules, 2012, 50, 1048-1054.	7.5	27
42	In vivo guiding inorganic nanozymes for biosensing and therapeutic potential in cancer, inflammation and microbial infections. Talanta, 2021, 224, 121805.	5.5	27
43	The expression level of angiotensin-converting enzyme 2 determines the severity of COVID-19: lung and heart tissue as targets. Journal of Biomolecular Structure and Dynamics, 2021, 39, 3780-3786.	3.5	26
44	Rapid diagnostics of coronavirus disease 2019 in early stages using nanobiosensors: Challenges and opportunities. Talanta, 2021, 223, 121704.	5.5	26
45	Enzyme–polymeric/inorganic metal oxide/hybrid nanoparticle bio-conjugates in the development of therapeutic and biosensing platforms. Journal of Advanced Research, 2021, 33, 227-239.	9.5	25
46	Probing the interaction of silver nanoparticles with tau protein and neuroblastoma cell line as nervous system models. Journal of Biomolecular Structure and Dynamics, 2018, 36, 4057-4071.	3.5	25
47	A review of the berberine natural polysaccharide nanostructures as potential anticancer and antibacterial agents. Biomedicine and Pharmacotherapy, 2022, 146, 112531.	5.6	25
48	Aluminium oxide nanoparticles induce structural changes in tau and cytotoxicity of the neuroblastoma cell line. International Journal of Biological Macromolecules, 2018, 120, 1140-1148.	7.5	24
49	<p>Exploring the Interaction of Cobalt Oxide Nanoparticles with Albumin, Leukemia Cancer Cells and Pathogenic Bacterial by Multispectroscopic, Docking, Cellular and Antibacterial Approaches</p> . International Journal of Nanomedicine, 2020, Volume 15, 4607-4623.	6.7	24
50	3D bioprinting of engineered breast cancer constructs for personalized and targeted cancer therapy. Journal of Controlled Release, 2021, 333, 91-106.	9.9	24
51	Fabrication and evaluation of anti-cancer efficacy of lactoferrin-coated maghemite and magnetite nanoparticles. Journal of Biomolecular Structure and Dynamics, 2020, 38, 2945-2954.	3.5	23
52	Highly efficient immobilization of beta-lactoglobulin in functionalized mesoporous nanoparticles: A simple and useful approach for enhancement of protein stability. Biophysical Chemistry, 2012, 165-166, 13-20.	2.8	22
53	A spectroscopic study on the absorption of carbonic anhydrase onto the nanoporous silica nanoparticle. International Journal of Biological Macromolecules, 2017, 99, 739-745.	7.5	22
54	<p>Amorphous aggregation of tau in the presence of titanium dioxide nanoparticles: biophysical, computational, and cellular studies</p> . International Journal of Nanomedicine, 2019, Volume 14, 901-911.	6.7	22

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55	Probing the interaction of zero valent iron nanoparticles with blood system by biophysical, docking, cellular, and molecular studies. International Journal of Biological Macromolecules, 2018, 109, 639-650.	7.5	21
56	ROS-mediated heme degradation and cytotoxicity induced by iron nanoparticles: hemoglobin and lymphocyte cells as targets. Journal of Biomolecular Structure and Dynamics, 2018, 36, 4235-4245.	3.5	21
57	Biophysical, bioinformatical, cellular, and molecular investigations on the effects of graphene oxide nanosheets on the hemoglobin structure and lymphocyte cell cytotoxicity. International Journal of Nanomedicine, 2018, Volume 13, 6871-6884.	6.7	21
58	Albumin binding, antioxidant and antibacterial effects of cerium oxide nanoparticles. Journal of Molecular Liquids, 2019, 296, 111839.	4.9	21
59	Strategies of enzyme immobilization on nanomatrix supports and their intracellular delivery. Journal of Biomolecular Structure and Dynamics, 2020, 38, 2746-2762.	3.5	21
60	Interaction of manganese nanoparticle with cytochrome c: A multi-spectroscopic study. International Journal of Biological Macromolecules, 2018, 106, 78-86.	7.5	20
61	A review on the interaction of nucleoside analogues with SARS-CoV-2 RNA dependent RNA polymerase. International Journal of Biological Macromolecules, 2021, 181, 605-611.	7.5	20
62	Explaining chemical clues of metal organic framework-nanozyme nano-/micro-motors in targeted treatment of cancers: benchmarks and challenges. Journal of Nanobiotechnology, 2022, 20, 153.	9.1	20
63	<i>cis</i> pT231-Tau Drives Neurodegeneration in Bipolar Disorder. ACS Chemical Neuroscience, 2019, 10, 1214-1221.	3.5	19
64	Silymarin-albumin nanoplex: Preparation and its potential application as an antioxidant in nervous system in vitro and in vivo. International Journal of Pharmaceutics, 2019, 572, 118824.	5.2	18
65	Titanium oxide nanoparticles fabrication, hemoglobin interaction, white blood cells cytotoxicity, and antibacterial studies. Journal of Biomolecular Structure and Dynamics, 2019, 37, 3007-3017.	3.5	17
66	Silica nanoparticles induce conformational changes of tau protein and oxidative stress and apoptosis in neuroblastoma cell line. International Journal of Biological Macromolecules, 2019, 124, 1312-1320.	7.5	17
67	Advances of exosome isolation techniques in lung cancer. Molecular Biology Reports, 2020, 47, 7229-7251.	2.3	17
68	Interaction of silica nanoparticles with tau proteins and PC12 cells: Colloidal stability, thermodynamic, docking, and cellular studies. International Journal of Biological Macromolecules, 2018, 118, 1963-1973.	7.5	16
69	The effects of nickel oxide nanoparticles on tau protein and neuron-like cells: Biothermodynamics and molecular studies. International Journal of Biological Macromolecules, 2019, 127, 330-339.	7.5	16
70	Exploring the interaction of synthesized nickel oxide nanoparticles through hydrothermal method with hemoglobin and lymphocytes: Bio-thermodynamic and cellular studies. Journal of Molecular Liquids, 2020, 317, 113893.	4.9	16
71	Silybin as a potent inhibitor of a-synuclein aggregation and associated cytotoxicity against neuroblastoma cells induced by zinc oxide nanoparticles. Journal of Molecular Liquids, 2020, 310, 113198.	4.9	16
72	Thermodynamic and anticancer properties of inorganic zinc oxide nanoparticles synthesized through co-precipitation method. Journal of Molecular Liquids, 2021, 330, 115602.	4.9	16

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73	Criteria, Challenges, and Opportunities for Acellularized Allogeneic/Xenogeneic Bone Grafts in Bone Repairing. ACS Biomaterials Science and Engineering, 2022, 8, 3199-3219.	5.2	16
74	Human hemoglobin adsorption onto colloidal cerium oxide nanoparticles: a new model based on zeta potential and spectroscopy measurements. Journal of Biomolecular Structure and Dynamics, 2018, 36, 2908-2916.	3.5	15
75	Heme degradation and iron release of hemoglobin and oxidative stress of lymphocyte cells in the presence of silica nanoparticles. International Journal of Biological Macromolecules, 2018, 118, 800-807.	7.5	15
76	Biophysical, molecular dynamics and cellular studies on the interaction of nickel oxide nanoparticles with tau proteins and neuron-like cells. International Journal of Biological Macromolecules, 2019, 125, 778-784.	7.5	15
77	Biophysical, docking, and cellular studies on the effects of cerium oxide nanoparticles on blood components: in vitro. International Journal of Nanomedicine, 2018, Volume 13, 4575-4589.	6.7	14
78	The effect of aluminum oxide on red blood cell integrity and hemoglobin structure at nanoscale. International Journal of Biological Macromolecules, 2019, 138, 800-809.	7.5	14
79	Nanoporous iron oxide nanoparticle: hydrothermal fabrication, human serum albumin interaction and potential antibacterial effects. Journal of Biomolecular Structure and Dynamics, 2021, 39, 2595-2606.	3.5	14
80	Molecular mechanisms of thyroid cancer: A competing endogenous RNA (ceRNA) point of view. Biomedicine and Pharmacotherapy, 2022, 146, 112251.	5.6	14
81	Acceleration of α-synuclein fibril formation and associated cytotoxicity stimulated by silica nanoparticles as a model of neurodegenerative diseases. International Journal of Biological Macromolecules, 2021, 169, 532-540.	7.5	13
82	Cobalt oxide nanoparticles mediate tau denaturation and cytotoxicity against PC-12 cell line. International Journal of Biological Macromolecules, 2018, 118, 1763-1772.	7.5	12
83	Reactive oxygen species generated by titanium oxide nanoparticles stimulate the hemoglobin denaturation and cytotoxicity against human lymphocyte cell. Journal of Biomolecular Structure and Dynamics, 2019, 37, 4875-4881.	3.5	12
84	Tau folding and cytotoxicity of neuroblastoma cells in the presence of manganese oxide nanoparticles: Biophysical, molecular dynamics, cellular, and molecular studies. International Journal of Biological Macromolecules, 2019, 125, 674-682.	7.5	12
85	5-Fluorouracil-containing inorganic iron oxide/platinum nanozymes with dual drug delivery and enzyme-like activity for the treatment of breast cancer. Arabian Journal of Chemistry, 2022, 15, 103966.	4.9	12
86	<p>Vitamin K1 As A Potential Molecule For Reducing Single-Walled Carbon Nanotubes-Stimulated α-Synuclein Structural Changes And Cytotoxicity</p> . International Journal of Nanomedicine, 2019, Volume 14, 8433-8444.	6.7	11
87	The effects of nickel oxide nanoparticles on structural changes, heme degradation, aggregation of hemoglobin and expression of apoptotic genes in lymphocytes. Journal of Biomolecular Structure and Dynamics, 2020, 38, 3676-3686.	3.5	10
88	Biothermodynamic, antiproliferative and antimicrobial properties of synthesized copper oxide nanoparticles. Journal of Molecular Liquids, 2021, 324, 114693.	4.9	9
89	Hydrothermal method-based synthesized tin oxide nanoparticles: Albumin binding and antiproliferative activity against K562 cells. Materials Science and Engineering C, 2021, 119, 111649.	7.3	9
90	Evaluation of heptelidic acid as a potential inhibitor for tau aggregation-induced Alzheimer's disease and associated neurotoxicity. International Journal of Biological Macromolecules, 2021, 183, 1155-1161.	7.5	7

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91	Copper oxide nanoparticles promote amyloid-β-triggered neurotoxicity through formation of oligomeric species as a prelude to Alzheimer's diseases. International Journal of Biological Macromolecules, 2022, 207, 121-129.	7.5	7
92	Combined Spectroscopic and Calorimetric Studies to Reveal Absorption Mechanisms and Conformational Changes of Protein on Nanoporous Biomaterials. International Journal of Molecular Sciences, 2015, 16, 17289-17302.	4.1	6
93	<p>The interaction of silica nanoparticles with catalase and human mesenchymal stem cells: biophysical, theoretical and cellular studies</p> . International Journal of Nanomedicine, 2019, Volume 14, 5355-5368.	6.7	6
94	Tin oxide nanoparticles trigger the formation of amyloid β oligomers/protofibrils and underlying neurotoxicity as a marker of Alzheimer's diseases. International Journal of Biological Macromolecules, 2022, 204, 154-160.	7.5	6
95	Irreversible thermal inactivation and conformational lock of alpha glucosidase. Journal of Biomolecular Structure and Dynamics, 2021, 39, 1-7.	3.5	5
96	Fabrication of inorganic alumina particles at nanoscale by a pulsed laser ablation technique in liquid and exploring their protein binding, anticancer and antipathogenic activities. Arabian Journal of Chemistry, 2021, 14, 102923.	4.9	5
97	Immobilization of superoxide dismutase onto ordered mesoporous silica nanoparticles and improvement of its stability. Journal of the Iranian Chemical Society, 2012, 9, 157-161.	2.2	4
98	Exploring the interaction of quercetin-3-O-sophoroside with SARS-CoV-2 main proteins by theoretical studies: A probable prelude to control some variants of coronavirus including Delta. Arabian Journal of Chemistry, 2021, 14, 103353.	4.9	4
99	Human tau fibrillization and neurotoxicity in the presence of magnesium oxide nanoparticle fabricated through laser ablation method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 278, 121372.	3.9	3
100	A bio-mimetic zinc/tau protein as an artificial catalase. International Journal of Biological Macromolecules, 2016, 92, 1307-1312.	7.5	1