

Abbas Amini

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

2,301
citations

24
h-index

44
g-index

134
ext. papers

2,972
ext. citations

6.9
avg, IF

5.41
L-index

#	Paper	IF	Citations
119	Cross-linked poly(vinyl butyral)/ amine-functionalized polyacrylonitrile adsorptive membrane nano-composited with CeO ₂ nanoparticles for simultaneous aqueous removal of heavy metals and cefotaxime. <i>Chemical Engineering Journal</i> , 2022 , 435, 134849	14.7	1
118	MXene-based cytosensor for the detection of HER2-positive cancer cells using CoFeO@Ag magnetic nanohybrids conjugated to the HB5 aptamer. <i>Biosensors and Bioelectronics</i> , 2022 , 195, 113626	11.8	12
117	Sandwiched Li plating between Lithiophilic-Lithiophobic gradient Silver@Fullerene interphase layer for ultrastable lithium metal anodes. <i>Chemical Engineering Journal</i> , 2022 , 429, 132156	14.7	7
116	Hyper IgE syndromes: A clinical approach.. <i>Clinical Immunology</i> , 2022 , 237, 108988	9	0
115	The potential of surface nano-engineering in characteristics of cobalt-based nanoparticles and biointerface interaction with prokaryotic and human cells.. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 215, 112485	6	3
114	Doping Free and Amorphous NiO Film via UV Irradiation for Efficient Inverted Perovskite Solar Cells.. <i>Advanced Science</i> , 2022 , e2201543	13.6	4
113	Soft hypergraph for modeling global interactions via social media networks. <i>Expert Systems With Applications</i> , 2022 , 203, 117466	7.8	0
112	Bridging the Interfacial Contact for Improved Stability and Efficiency of Inverted Perovskite Solar Cells.. <i>Small</i> , 2022 , e2201694	11	1
111	Organoid technology: Current standing and future perspectives. <i>Stem Cells</i> , 2021 , 39, 1625-1649	5.8	1
110	Quantitative Evaluation of Thermal Conductivity of Single-Bent Microwire Using Vanadium Dioxide Temperature Tag. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2100348	1.6	
109	Strained Epitaxy of Monolayer Transition Metal Dichalcogenides for Wrinkle Arrays. <i>ACS Nano</i> , 2021 , 15, 6633-6644	16.7	11
108	Nanobased Platforms for Diagnosis and Treatment of COVID-19: From Benchtop to Bedside. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2150-2176	5.5	13
107	Association of vitamin D-binding protein and vitamin D with insulin and homeostatic model assessment (HOMA-IR) in overweight and obese females. <i>BMC Research Notes</i> , 2021 , 14, 193	2.3	1
106	Fully Optically Tunable and Flexible Composite Films for Enhanced Terahertz Control and Multifunctional Terahertz Devices. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3044-3051	4	4
105	Highly-Efficient Sulfonated UiO-66(Zr) Optical Fiber for Rapid Detection of Trace Levels of Pb. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
104	Phase Transition Hysteresis of Tungsten Doped VO ₂ Synergistically Boosts the Function of Smart Windows in Ambient Conditions. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3648-3656	4	2
103	NiCoS@Cobalt Carbonate Hydroxide Obtained by Surface Sulfurization for Efficient and Stable Hydrogen Evolution at Large Current Densities. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 35647-35656	9.5	4

102	Phase management in single-crystalline vanadium dioxide beams. <i>Nature Communications</i> , 2021 , 12, 42147.4	7.4	7
101	Construction of highly efficient Z-scheme ZnxCd1-xS/Au@g-C3N4 ternary heterojunction composite for visible-light-driven photocatalytic reduction of CO2 to solar fuel. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119600	21.8	50
100	Application of Nonlinear Guided Waves for Detecting Loose Flanged Bolted Joints in Pipelines. <i>Lecture Notes in Civil Engineering</i> , 2021 , 129-139	0.3	1
99	Magnetic AgNPs/Fe3O4@chitosan/PVA nanocatalyst for fast one-pot green synthesis of propargylamine and triazole derivatives. <i>New Journal of Chemistry</i> , 2021 , 45, 16119-16130	3.6	3
98	Recent progress on kinetic control of chemical vapor deposition growth of high-quality wafer-scale transition metal dichalcogenides. <i>Nanoscale Advances</i> , 2021 , 3, 3430-3440	5.1	7
97	Chemically stable porous crystalline macromolecule hydrazone-linked covalent organic framework for CO2 capture. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 613, 126078	5.1	6
96	Anticancer Property of Lanthanide Sulfate Nanostructure Against Neuroblastoma-Neuro2a Cell Line. <i>BioNanoScience</i> , 2021 , 11, 696-702	3.4	2
95	Research progress on graphene-based materials for high-performance lithium-metal batteries. <i>New Carbon Materials</i> , 2021 , 36, 711-728	4.4	9
94	Fundamental relations and identities of fuzzy hyperalgebras. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021 , 41, 2265-2274	1.6	
93	Antisolvent Engineering to Optimize Grain Crystallinity and Hole-Blocking Capability of Perovskite Films for High-Performance Photovoltaics. <i>Advanced Materials</i> , 2021 , 33, e2102816	24	21
92	Elevated Plasma Concentrations of Vitamin D-Binding Protein Are Associated with Lower High-Density Lipoprotein and Higher Fat Mass Index in Overweight and Obese Women. <i>Nutrients</i> , 2021 , 13,	6.7	1
91	Vanadium dioxide for thermochromic smart windows in ambient conditions. <i>Materials Today Energy</i> , 2021 , 21, 100827	7	7
90	Facile fabrication of PVB-PVA blend polymer nanocomposite for simultaneous removal of heavy metal ions from aqueous solutions: Kinetic, equilibrium, reusability and adsorption mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106214	6.8	6
89	Limitations and solutions for achieving high-performance perovskite tandem photovoltaics. <i>Nano Energy</i> , 2021 , 88, 106219	17.1	5
88	Ion modification of transition cobalt oxide by soaking strategy for enhanced water splitting. <i>Chemical Engineering Journal</i> , 2021 , 423, 130218	14.7	7
87	A reduced graphene oxide-β-cyclodextrin nanocomposite-based electrode for electrochemical detection of curcumin.. <i>RSC Advances</i> , 2021 , 11, 7862-7872	3.7	12
86	Highly Efficient Visible-Light-Driven Photocatalytic Hydrogen Production Using Robust Noble-Metal-Free Zn0.5Cd0.5S@Graphene Composites Decorated with MoS2 Nanosheets. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000010	4.6	9
85	Novel versatile 3D bio-scaffold made of natural biocompatible hagfish exudate for tissue growth and organoid modeling. <i>International Journal of Biological Macromolecules</i> , 2020 , 158, 894-902	7.9	7

84	Multistimuli-Responsive Insect-Scale Soft Robotics Based on Anisotropic Super-Aligned VO ₂ Nanowire/Carbon Nanotube Bimorph Actuators. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000051	6	8
83	Freestanding agaric-like molybdenum carbide/graphene/N-doped carbon foam as effective polysulfide anchor and catalyst for high performance lithium sulfur batteries. <i>Energy Storage Materials</i> , 2020 , 33, 73-81	19.4	35
82	Oxide Inhibitor-Assisted Growth of Single-Layer Molybdenum Dichalcogenides (MoX, X = S, Se, Te) with Controllable Molybdenum Release. <i>ACS Nano</i> , 2020 , 14, 7593-7601	16.7	18
81	Multiple Regulation over Growth Direction, Band Structure, and Dimension of Monolayer WS ₂ by a Quartz Substrate. <i>Chemistry of Materials</i> , 2020 , 32, 2508-2517	9.6	14
80	2,6-Pyridinedicarbohydrazide-Salicylal hydrazone-base derivative with High detection limit and binding Constant for emissive ion chemosensing in aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 392, 112344	4.7	0
79	Expression of key apoptotic genes in hepatocellular carcinoma cell line treated with etoposide-loaded graphene oxide. <i>Journal of Drug Delivery Science and Technology</i> , 2020 , 57, 101725	4.5	14
78	Bifunctional Ultrathin PCBM Enables Passivated Trap States and Cascaded Energy Level toward Efficient Inverted Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20103-20109	9.5	27
77	Design and Manufacturing a Miniature Reynolds Apparatus for Testing Nanofluids 2020 , 123-144		
76	Why nanodiamond carriers manage to overcome drug resistance in cancer. 2020 , 3, 854-866		0
75	Novel symmetric Schiff-base benzobisthiazole-salicylidene derivative with fluorescence turn-on behavior for detecting Pb ²⁺ ion. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 388, 112190	4.7	9
74	Physical and chemical reaction sensing in a mixed aqueous solution via metal-organic framework thin-film coated optical fiber. <i>Microwave and Optical Technology Letters</i> , 2020 , 62, 72-77	1.2	2
73	Hierarchical heterostructured nickel foam-supported Co ₃ S ₄ nanorod arrays embellished with edge-exposed MoS ₂ nanoflakes for enhanced alkaline hydrogen evolution reaction. <i>Materials Today Energy</i> , 2020 , 18, 100513	7	15
72	Coated nanodiamonds interact with tubulin beta-III negative cells of adult brain tissue. <i>Biointerphases</i> , 2020 , 15, 061009	1.8	0
71	Functionalization of Graphene Oxide Nanosheets Can Reduce Their Cytotoxicity to Dental Pulp Stem Cells. <i>Journal of Nanomaterials</i> , 2020 , 2020, 1-14	3.2	5
70	Controlled growth of atomically thin transition metal dichalcogenides via chemical vapor deposition method. <i>Materials Today Advances</i> , 2020 , 8, 100098	7.4	13
69	Graphene oxide and its derivatives as promising In-vitro bio-imaging platforms. <i>Scientific Reports</i> , 2020 , 10, 18052	4.9	16
68	Low-temperature wafer-scale fabrication of vertical VO ₂ nanowire arrays. <i>Applied Physics Letters</i> , 2020 , 117, 083108	3.4	5
67	Metal oxide-based gas sensors for detection of exhaled breath markers. <i>Medical Devices & Sensors</i> , 2020 , 4, e10161	1.6	9

66	Towards Simplifying the Device Structure of High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2000863	15.6	38
65	Single-electrode triboelectric nanogenerator based on economical graphite coated paper for harvesting waste environmental energy. <i>Nano Energy</i> , 2019 , 66, 104141	17.1	34
64	Joule heating driven infrared switching in flexible VO ₂ nanoparticle films with reduced energy consumption for smart windows. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4516-4524	13	27
63	Liberating Researchers from the Glovebox: A Universal Thermal Radiation Protocol Toward Efficient Fully Air-Processed Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800324	7.1	13
62	Organic Monomolecular Layers Enable Energy-Level Matching for Efficient Hole Transporting Layer Free Inverted Perovskite Solar Cells. <i>ACS Nano</i> , 2019 , 13, 1625-1634	16.7	27
61	One-pot facile simultaneous synthesis of conductive Ag-polyaniline composites using Keggin and Preyssler-type phosphotungstates.. <i>RSC Advances</i> , 2019 , 9, 2772-2783	3.7	6
60	The Role of Polyethylene Glycol Size in Chemical Spectra, Cytotoxicity, and Release of PEGylated Nanoliposomal Cisplatin. <i>Assay and Drug Development Technologies</i> , 2019 , 17, 231-239	2.1	13
59	Actuators: Single-Crystalline Vanadium Dioxide Actuators (Adv. Funct. Mater. 20/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970138	15.6	
58	MOFs-derived ZnCoBe core-shell nanocages with remarkable oxygen evolution reaction performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17299-17305	13	32
57	Single-Crystalline Vanadium Dioxide Actuators. <i>Advanced Functional Materials</i> , 2019 , 29, 1900527	15.6	22
56	Hybrid graphene oxide decoration and water-based polymers for mild steel surface protection in saline environment. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 74, 41-54	6.3	22
55	Recent advances in fabrication strategies, phase transition modulation, and advanced applications of vanadium dioxide. <i>Applied Physics Reviews</i> , 2019 , 6, 011312	17.3	51
54	Electrocatalytic Hydrogen Production: Polyoxometalate-Derived Hexagonal Molybdenum Nitrides (MXenes) Supported by Boron, Nitrogen Codoped Carbon Nanotubes for Efficient Electrochemical Hydrogen Evolution from Seawater (Adv. Funct. Mater. 8/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970046	15.6	20
53	Free-Molecular-Flow Modulated Synthesis of Hexagonal Boron Nitride Monolayers. <i>Crystal Growth and Design</i> , 2019 , 19, 7007-7014	3.5	5
52	Fabricating High-Efficient Blade-Coated Perovskite Solar Cells under Ambient Condition Using Lead Acetate Trihydrate. <i>Solar Rrl</i> , 2018 , 2, 1700214	7.1	25
51	Pilus-encoding islets in <i>S. agalactiae</i> and its association with antibacterial resistance and serotype distribution. <i>Microbial Pathogenesis</i> , 2018 , 116, 189-194	3.8	14
50	Twin Defect Derived Growth of Atomically Thin MoS Dendrites. <i>ACS Nano</i> , 2018 , 12, 635-643	16.7	63
49	PEDOT:PSS/graphene quantum dots films with enhanced thermoelectric properties via strong interfacial interaction and phase separation. <i>Scientific Reports</i> , 2018 , 8, 6441	4.9	104

48	A new numerical method for delay and advanced integro-differential equations. <i>Numerical Algorithms</i> , 2018 , 77, 381-412	2.1	6
47	A new operational method to solve Abel and generalized Abel integral equations. <i>Applied Mathematics and Computation</i> , 2018 , 317, 49-67	2.7	5
46	Directly Probing Light Absorption Enhancement of Single Hierarchical Structures with Engineered Surface Roughness. <i>Scientific Reports</i> , 2018 , 8, 12283	4.9	4
45	Genotyping and Phylogenetic Analysis of Group B Streptococcus by Multiple Locus Variable Number Tandem Repeat Analysis in Iran. <i>Galen</i> , 2018 , 7, e1121	0.3	1
44	Capacity of quartz fibers with high filtration efficiency for capturing soot aerosol particles. <i>International Journal of Environmental Science and Technology</i> , 2018 , 15, 1039-1048	3.3	4
43	Natural phosphate-supported Cu(ii), an efficient and recyclable catalyst for the synthesis of xanthene and 1,4-disubstituted-1,2,3-triazole derivatives.. <i>RSC Advances</i> , 2018 , 8, 41536-41547	3.7	17
42	Polyoxometalate-Derived Hexagonal Molybdenum Nitrides (MXenes) Supported by Boron, Nitrogen Codoped Carbon Nanotubes for Efficient Electrochemical Hydrogen Evolution from Seawater. <i>Advanced Functional Materials</i> , 2018 , 29, 1805893	15.6	31
41	Targeted Graphene Oxide Networks: Cytotoxicity and Synergy with Anticancer Agents. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43523-43532	9.5	14
40	Application of nanomaterial graphene oxide on biochemical traits of Milk thistle (<i>Silybum marianum</i> L.) under salinity stress. <i>Australian Journal of Crop Science</i> , 2018 , 12, 931-936	0.5	13
39	Role of chitosan on the growth, physiological parameters and enzymatic activity of milk thistle (<i>Silybum marianum</i> (L.) Gaertn.) in a pot experiment. <i>Journal of Applied Research on Medicinal and Aromatic Plants</i> , 2018 , 10, 49-58	2.6	16
38	Effect of friction hardening pre-treatment on increasing cytocompatibility of alkali heat-treated Ti-6Al-4V alloy. <i>Surface and Coatings Technology</i> , 2018 , 353, 148-157	4.4	7
37	Low cost numerical solution for three-dimensional linear and nonlinear integral equations via three-dimensional Jacobi polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 319, 493-513	2.4	12
36	Functionalized Graphene Oxide with Chitosan for Protein Nanocarriers to Protect against Enzymatic Cleavage and Retain Collagenase Activity. <i>Scientific Reports</i> , 2017 , 7, 42258	4.9	80
35	Phosphorous doped graphitic-C ₃ N ₄ hierarchical architecture for hydrogen production from water under visible light. <i>Materials Today Energy</i> , 2017 , 5, 91-98	7	16
34	Modifying effects of carboxyl group on the interaction of recombinant S100A8/A9 complex with tyrosinase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017 , 1865, 370-379	4	2
33	Shape-Dependent Defect Structures of Monolayer MoS Crystals Grown by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 763-770	9.5	36
32	and antifungal properties of silver nanoparticles against , a common agent of rice sheath blight disease. <i>IET Nanobiotechnology</i> , 2017 , 11, 236-240	2	45
31	Structural characterization of recombinant human fibroblast growth factor receptor 2b kinase domain upon interaction with omega fatty acids. <i>Chemistry and Physics of Lipids</i> , 2017 , 202, 21-27	3.7	2

30	Biosynthesis of Silver Nanoparticles Using Pine Pollen and Evaluation of the Antifungal Efficiency. <i>Iranian Journal of Biotechnology</i> , 2017 , 15, 95-101	1	44
29	VO-C-SnO Hybrid Nanobelts as High Performance Anodes for Lithium-ion Batteries. <i>Scientific Reports</i> , 2016 , 6, 33597	4.9	27
28	Effect of poly and mono-unsaturated fatty acids on stability and structure of recombinant S100A8/A9. <i>International Journal of Biological Macromolecules</i> , 2016 , 84, 35-42	7.9	13
27	Green synthesis of silver nanoparticles with a long lasting stability using colloidal solution of cowpea seeds (<i>Vigna sp. L.</i>). <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 2023-2032	6.8	24
26	Hypothesis on Phase Transition Nucleation and Propagation in Polycrystalline NiTi shape Memory Alloys under Nanoscale Compressive Loading. <i>Materials Today: Proceedings</i> , 2016 , 3, 708-714	1.4	1
25	A facile Friedel-Crafts acylation for the synthesis of polyethylenimine-grafted multi-walled carbon nanotubes as efficient gene delivery vectors. <i>International Journal of Pharmaceutics</i> , 2016 , 502, 125-37	6.5	23
24	Crack Damage in Polymers and Composites: A Review. <i>Polymer Reviews</i> , 2016 , 56, 31-69	14	98
23	Fractionation of graphene oxide single nano-sheets in water-glycerol solutions using gradient centrifugation. <i>Carbon</i> , 2016 , 103, 363-371	10.4	18
22	Berseem clover quality and basil essential oil yield in intercropping system under limited irrigation treatments with surfactant. <i>Agricultural Water Management</i> , 2016 , 164, 331-339	5.9	6
21	In vitro Antibacterial Biofilm effect of Magnesium Oxide Nanoparticles on <i>Streptococcus mutans</i> 2016 , 1,		4
20	Three Dimensional Sculpturing of Vertical Nanowire Arrays by Conventional Photolithography. <i>Scientific Reports</i> , 2016 , 6, 18886	4.9	7
19	Y-shaped ZnO Nanobelts Driven from Twinned Dislocations. <i>Scientific Reports</i> , 2016 , 6, 22494	4.9	8
18	Hierarchical ZnO nanostructures with blooming flowers driven by screw dislocations. <i>Scientific Reports</i> , 2015 , 5, 8226	4.9	13
17	Nanoscale variation in energy dissipation in austenitic shape memory alloys in ultimate loading cycles. <i>Journal of Intelligent Material Systems and Structures</i> , 2015 , 26, 2411-2417	2.3	2
16	Improved Nanoindentation Phase Transformation in Functional Structure of NiTi SMA and Graphene. <i>Advanced Materials Research</i> , 2015 , 1119, 160-164	0.5	
15	Visible light photoinactivation of bacteria by tungsten oxide nanostructures formed on a tungsten foil. <i>Applied Surface Science</i> , 2015 , 338, 55-60	6.7	24
14	Enhanced photocatalytic performance of TiO ₂ -ZnO hybrid nanostructures. <i>Scientific Reports</i> , 2014 , 4, 4181	4.9	194
13	Mechanical property and structure of covalent functionalised graphene/epoxy nanocomposites. <i>Scientific Reports</i> , 2014 , 4, 4375	4.9	352

12	Self-assembly and horizontal orientation growth of VO ₂ nanowires. <i>Scientific Reports</i> , 2014 , 4, 5456	4.9	43
11	Dispersing single-walled carbon nanotubes in ionic liquids: a quantitative analysis. <i>RSC Advances</i> , 2013 , 3, 20034	3.7	24
10	Temperature variations at nano-scale level in phase transformed nanocrystalline NiTi shape memory alloys adjacent to graphene layers. <i>Nanoscale</i> , 2013 , 5, 6479-84	7.7	10
9	Effect of graphene layers on the thermomechanical behaviour of a NiTi shape memory alloy during the nanoscale phase transition. <i>Scripta Materialia</i> , 2013 , 68, 420-423	5.6	11
8	Combinational rate effects on the performance of nano-grained pseudoelastic Nitinol. <i>Materials Letters</i> , 2013 , 105, 98-101	3.3	8
7	On anomalous depth-dependency of the hardness of NiTi shape memory alloys in spherical nanoindentation. <i>Journal of Materials Research</i> , 2013 , 28, 2031-2039	2.5	9
6	Phase transformation evolution in NiTi shape memory alloy under cyclic nanoindentation loadings at dissimilar rates. <i>Scientific Reports</i> , 2013 , 3, 3412	4.9	12
5	Nature of hardness evolution in nanocrystalline NiTi shape memory alloys during solid-state phase transition. <i>Scientific Reports</i> , 2013 , 3, 2476	4.9	11
4	Effects of dynamic loading on nano-scale depth-recovery and damping property of single crystal CuAlNi shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2012 , 545, 222-224	5.7	10
3	Loading rate dependency of maximum nanoindentation depth in nano-grained NiTi shape memory alloy. <i>Materials Letters</i> , 2011 , 65, 464-466	3.3	27
2	Depth dependency of indentation hardness during solid-state phase transition of shape memory alloys. <i>Applied Physics Letters</i> , 2011 , 99, 021901	3.4	28
1	Organic semiconductor/insulator blends for organic field-effect transistors. <i>Physica Status Solidi - Rapid Research Letters</i> ,	2.5	0