

# Mohammad Mahdi Ahadian

## List of Publications by Year in descending order

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39  
papers

1,380  
citations

471061

17  
h-index

329751

37  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1825  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Heavy Oil Recovery in Sandstone Cores Using TiO <sub>2</sub> Nanofluids. Energy & Fuels, 2014, 28, 423-430.	2.5	234
2	Enhanced Heavy Oil Recovery Using TiO <sub>2</sub> Nanoparticles: Investigation of Deposition during Transport in Core Plug. Energy & Fuels, 2015, 29, 1-8.	2.5	133
3	Curcumin-reduced graphene oxide sheets and their effects on human breast cancer cells. Materials Science and Engineering C, 2015, 55, 482-489.	3.8	122
4	Synthesis and photocatalytic activity of WO <sub>3</sub> nanoparticles prepared by the arc discharge method in deionized water. Nanotechnology, 2008, 19, 195709.	1.3	115
5	ZnO nanoparticles prepared by electrical arc discharge method in water. Materials Chemistry and Physics, 2009, 118, 6-8.	2.0	72
6	Mechanical properties of graphene cantilever from atomic force microscopy and density functional theory. Nanotechnology, 2010, 21, 185503.	1.3	63
7	New Insight into the Concept of Carbonization Degree in Synthesis of Carbon Dots to Achieve Facile Smartphone Based Sensing Platform. Scientific Reports, 2017, 7, 11013.	1.6	58
8	Graphene/cobalt nanocarrier for hyperthermia therapy and MRI diagnosis. Colloids and Surfaces B: Biointerfaces, 2016, 146, 271-279.	2.5	57
9	Antibacterial properties of nanoporous graphene oxide/cobalt metal organic framework. Materials Science and Engineering C, 2019, 104, 109862.	3.8	56
10	Photocatalytic activity of ZnO nanoparticles prepared via submerged arc discharge method. Applied Physics A: Materials Science and Processing, 2010, 100, 1097-1102.	1.1	41
11	Heat transfer of PEGylated cobalt ferrite nanofluids for magnetic fluid hyperthermia therapy: In vitro cellular study. Journal of Magnetism and Magnetic Materials, 2018, 462, 185-194.	1.0	40
12	Characterization of porous poly-silicon as a gas sensor. Sensors and Actuators B: Chemical, 2004, 100, 341-346.	4.0	38
13	Rapid and efficient synthesis of colloidal gold nanoparticles by arc discharge method. Applied Physics A: Materials Science and Processing, 2009, 96, 423-428.	1.1	32
14	The effect of grain size on the fluctuation-induced conductivity of Cu <sub>1-x</sub> Tl <sub>x</sub> Ba <sub>2</sub> Ca <sub>3</sub> Cu <sub>4</sub> O <sub>12</sub> superconductor thin films. Superconductor Science and Technology, 2007, 20, 742-747.	1.8	29
15	Nonlinear vibrations of microcantilevers subjected to tip-sample interactions: Theory and experiment. Journal of Applied Physics, 2009, 106, 113510.	1.1	23
16	Model Fuel Deep Desulfurization Using Modified 3D Graphenic Adsorbents: Isotherm, Kinetic, and Thermodynamic Study. Industrial & Engineering Chemistry Research, 2019, 58, 10341-10351.	1.8	20
17	Hyperthermia of breast cancer tumor using graphene oxide-cobalt ferrite magnetic nanoparticles in mice. Journal of Drug Delivery Science and Technology, 2021, 65, 102680.	1.4	20
18	Facile synthesis of cauliflower-like hydrophobically modified polyacrylamide nanospheres by aerosol-photopolymerization. European Polymer Journal, 2016, 83, 323-336.	2.6	19

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19	Diffusion and segregation of substrate copper in electrodeposited Ni-Fe thin films. <i>Journal of Alloys and Compounds</i> , 2007, 443, 81-86.	2.8	18
20	Novel synthesis of cobalt/poly vinyl alcohol/gamma alumina nanocomposite for catalytic application. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	17
21	Polyphosphate-reduced graphene oxide on Ni foam as a binder free electrode for fabrication of high performance supercapacitor. <i>Electrochimica Acta</i> , 2019, 296, 130-141.	2.6	17
22	Hyperthermia response of PEGylated magnetic graphene nanocomposites for heating applications and accelerate antibacterial activity using magnetic fluid hyperthermia. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	17
23	Electrochemically Assisted Photocatalytic Oxidation of Methanol on TiO <sub>2</sub> Nanotube Arrays. <i>Journal of Materials Science and Technology</i> , 2010, 26, 535-541.	5.6	15
24	X-ray photoemission studies of Zn doped Cu <sub>1-x</sub> Tl <sub>x</sub> Ba <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> Zn <sub>y</sub> O <sub>10</sub> (y=0, 2.65) superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 453, 46-51.	0.6	14
25	X-ray photo-emission studies of Cu <sub>1-x</sub> Tl <sub>x</sub> Ba <sub>2</sub> Ca <sub>3</sub> Cu <sub>4</sub> O <sub>12</sub> superconductor thin films. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 449, 47-52.	0.6	13
26	Molecular interaction between three-dimensional graphene aerogel and enzyme solution: Effect on enzyme structure and function. <i>Journal of Molecular Liquids</i> , 2018, 265, 565-571.	2.3	12
27	The effect of the Cr and Mo on the surface accumulation of copper in the electrodeposited Ni-Fe/Cu alloy films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 127, 17-21.	1.7	11
28	Binder-free 3D graphene nanostructures on Ni foam substrate for application in capacitive deionization. <i>Diamond and Related Materials</i> , 2021, 120, 108612.	1.8	11
29	Enhanced inter-plane coupling of Mg doped Cu <sub>0.5</sub> Tl <sub>0.5</sub> Ba <sub>2</sub> Ca <sub>2</sub> Mg <sub>x</sub> Cu <sub>3</sub> O <sub>10</sub> superconductors: XPS and FTIR studies. <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 405-410.	0.6	10
30	Photoluminescence and electrochemical investigation of curcumin-reduced graphene oxide sheets. <i>Journal of the Iranian Chemical Society</i> , 2018, 15, 351-357.	1.2	10
31	XPS studies of Cu <sub>1-x</sub> Tl <sub>x</sub> Ba <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>10</sub> superconductor thin films. <i>Physica C: Superconductivity and Its Applications</i> , 2005, 433, 21-27.	0.6	8
32	Cellulose Acetate/Magnetic Graphene Nanofiber in Enhanced Human Mesenchymal Stem Cells Osteogenic Differentiation Under Alternative Current Magnetic Field. <i>Spin</i> , 2019, 09, .	0.6	8
33	Room temperature diffusion of Cu in vanadium pentoxide thin films. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 1176-1182.	1.3	6
34	Fabrication of porous polyphosphate carbon composite on nickel foam as an efficient binder-less electrode for symmetric capacitive deionization. <i>Separation and Purification Technology</i> , 2021, 276, 119427.	3.9	6
35	Thermal desorption of ultrathin silicon oxide layers on Si(111). <i>Semiconductor Science and Technology</i> , 2000, 15, 160-163.	1.0	5
36	Cu surface segregation in Ni/Cu system. <i>Vacuum</i> , 2009, 84, 469-473.	1.6	5

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37	Biocompatibility and Hyperthermia Efficiency of Sonochemically Synthesized Magnetic Nanoparticles. Spin, 2019, 09, .	0.6	4
38	Structure and composition of the segregated Cu in V2O5/Cu system. Applied Surface Science, 2006, 253, 2581-2588.	3.1	1
39	Fabrication of self-organised highly ordered titanium oxide nanotube arrays by anodic oxidation and characterisation. International Journal of Nanomanufacturing, 2010, 5, 297.	0.3	0