

# Ali Akbar Ashkarran

## List of Publications by Year in descending order

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64  
papers

4,477  
citations

201674

27  
h-index

114465

63  
g-index

64  
all docs

64  
docs citations

64  
times ranked

8129  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformation- and phosphorylation-dependent electron tunnelling across self-assembled monolayers of tau peptides. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 2038-2050.	9.4	2
2	In situ monitoring of photo-crosslinking reaction of water-soluble bifunctional macromers using magnetic levitation. <i>Analytica Chimica Acta</i> , 2022, 1195, 339369.	5.4	3
3	Two-Dimensional Nanomaterials beyond Graphene for Biomedical Applications. <i>Journal of Functional Biomaterials</i> , 2022, 13, 27.	4.4	55
4	Magnetic Levitation Systems for Disease Diagnostics. <i>Trends in Biotechnology</i> , 2021, 39, 311-321.	9.3	31
5	The File Drawer Problem in Nanomedicine. <i>Trends in Biotechnology</i> , 2021, 39, 425-427.	9.3	12
6	Shape Dependent Antibacterial Activity of Various Forms of ZnO Nanostructures. <i>BioNanoScience</i> , 2021, 11, 893-900.	3.5	4
7	Magnetic levitation: a physical tool to measure the density of unknown diamagnetic materials. <i>Physics Education</i> , 2021, 56, 055020.	0.5	6
8	Charge-driven condensation of RNA and proteins suggests broad role of phase separation in cytoplasmic environments. <i>ELife</i> , 2021, 10, .	6.0	38
9	Magnetically Levitated Plasma Proteins. <i>Analytical Chemistry</i> , 2020, 92, 1663-1668.	6.5	27
10	Multifunctional ZnO nanorods decorated with plasmonic gold nanoparticles for enhanced room temperature field emission, photo-luminescence and catalytic properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 591, 124532.	4.7	3
11	Evolving Magnetically Levitated Plasma Proteins Detects Opioid Use Disorder as a Model Disease. <i>Advanced Healthcare Materials</i> , 2020, 9, 1901608.	7.6	22
12	Mapping the heterogeneity of protein corona by <i>ex vivo</i> magnetic levitation. <i>Nanoscale</i> , 2020, 12, 2374-2383.	5.6	31
13	An efficient platform for the electrooxidation of formaldehyde based on amorphous NiWO <sub>4</sub> nanoparticles modified electrode for fuel cells. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113270.	3.8	26
14	Electrospun CuO-ZnO nanohybrid: Tuning the nanostructure for improved amperometric detection of hydrogen peroxide as a non-enzymatic sensor. <i>Journal of Colloid and Interface Science</i> , 2019, 550, 180-189.	9.4	50
15	Shape selective silver nanostructures decorated amine-functionalized graphene: A promising antibacterial platform. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 545, 101-109.	4.7	27
16	Forest of ultra thin silicon nanowires: realization of temperature and catalyst size. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 5373-5379.	2.2	2
17	Synergistic effect of shape-selective silver nanostructures decorating reduced graphene oxide nanoplatelets for enhanced cytotoxicity against breast cancer. <i>Nanotechnology</i> , 2018, 29, 285102.	2.6	5
18	Immobilization of plasmonic Ag-Au NPs on the TiO <sub>2</sub> nanofibers as an efficient visible-light photocatalyst. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 537, 155-162.	4.7	33

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19	Synthesis of Highly Crystalline Needle-Like Silicon Nanowires for Enhanced Field Emission Applications. <i>Silicon</i> , 2017, 9, 379-384.	3.3	3
20	Fabrication of a gold nanocage/graphene nanoscale platform for electrocatalytic detection of hydrazine. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 55-65.	7.8	65
21	Gold nanocages decorated biocompatible amine functionalized graphene as an efficient dopamine sensor platform. <i>Journal of Colloid and Interface Science</i> , 2017, 494, 290-299.	9.4	38
22	TUNGSTEN-DOPED TiO <sub>2</sub> NANOLAYERS WITH IMPROVED CO <sub>2</sub> GAS SENSING PROPERTIES FOR ENVIRONMENTAL APPLICATIONS. <i>Surface Review and Letters</i> , 2017, 24, 1850024.	1.1	3
23	TiO <sub>2</sub> nanofibers assembled on graphene-silver platform as a visible-light photo and bio-active nanostructure. <i>Ceramics International</i> , 2017, 43, 8655-8663.	4.8	9
24	Fabrication, characterization and enhanced sensing performance of graphene-TiO <sub>2</sub> gas sensor device. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9435-9441.	2.2	15
25	The effect of visible-light intensity on shape evolution and antibacterial properties of triangular silver nanostructures. <i>Optical Materials</i> , 2016, 58, 454-460.	3.6	11
26	Parametric investigation of CNT deposition on cement by CVD process. <i>Construction and Building Materials</i> , 2016, 113, 523-535.	7.2	28
27	Destructive effect of solar light on morphology of colloidal silver nanocubes. <i>Colloid Journal</i> , 2016, 78, 577-585.	1.3	4
28	The role of iron functionalization on the visible-light photocatalytic performance of TiO <sub>2</sub> nanofibers suitable for environmental applications. <i>Research on Chemical Intermediates</i> , 2016, 42, 8273-8284.	2.7	4
29	Cold atmospheric plasma discharge induced fast decontamination of a wide range of organic compounds suitable for environmental applications. <i>Journal of Water Process Engineering</i> , 2016, 9, 195-200.	5.6	9
30	The role of silane gas flow rate on PECVD-assisted fabrication of silicon nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	1
31	Tuning the Plasmon of Metallic Nanostructures: From Silver Nanocubes Toward Gold Nanoboxes. <i>Plasmonics</i> , 2016, 11, 1011-1017.	3.4	10
32	The Effect of FeCl <sub>3</sub> in the Shape Control Polyol Synthesis of Silver Nanospheres and Nanowires. <i>Journal of Cluster Science</i> , 2015, 26, 1901-1910.	3.3	14
33	Determination of nanoparticles using UV-Vis spectra. <i>Nanoscale</i> , 2015, 7, 5134-5139.	5.6	37
34	TiO <sub>2</sub> nanoparticles immobilized on carbon nanotubes for enhanced visible-light photo-induced activity. <i>Journal of Materials Research and Technology</i> , 2015, 4, 126-132.	5.8	39
35	ZnO nanoparticles decorated on graphene sheets through liquid arc discharge approach with enhanced photocatalytic performance under visible-light. <i>Applied Surface Science</i> , 2015, 342, 112-119.	6.1	54
36	Enhanced visible light-induced hydrophilicity in sol-gel-derived Ag-TiO <sub>2</sub> hybrid nanolayers. <i>Research on Chemical Intermediates</i> , 2015, 41, 7299-7311.	2.7	13

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37	Absence of photocatalytic activity in the presence of the photoluminescence property of Mn <sup>2+</sup> /ZnS nanoparticles prepared by a facile wet chemical method at room temperature. <i>Materials Science in Semiconductor Processing</i> , 2014, 17, 1-6.	4.0	31
38	Double-doped TiO <sub>2</sub> nanoparticles as an efficient visible-light-active photocatalyst and antibacterial agent under solar simulated light. <i>Applied Surface Science</i> , 2014, 301, 338-345.	6.1	88
39	Vertically-tapered silicon nanowire arrays prepared by plasma enhanced chemical vapor deposition: Synthesis, structural characterization and photoluminescence. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 26-32.	4.0	6
40	Thermolysis preparation of ZnS nanoparticles from a nano-structure bithiazole zinc(II) coordination compound. <i>Journal of Molecular Structure</i> , 2014, 1074, 673-678.	3.6	5
41	TiO <sub>2</sub> nanofibre-assisted photodecomposition of Rhodamine B from aqueous solution. <i>Journal of Experimental Nanoscience</i> , 2013, 8, 842-851.	2.4	3
42	Synthesis of a solar photo and bioactive CNT <sup>+</sup> /TiO <sub>2</sub> nanocatalyst. <i>RSC Advances</i> , 2013, 3, 18529.	3.6	22
43	Controlling the Geometry of Silver Nanostructures for Biological Applications. <i>Physics Procedia</i> , 2013, 40, 76-83.	1.2	22
44	Graphene: Promises, Facts, Opportunities, and Challenges in Nanomedicine. <i>Chemical Reviews</i> , 2013, 113, 3407-3424.	47.7	643
45	Seed Mediated Growth of Gold Nanoparticles Based on Liquid Arc Discharge. <i>Plasma Science and Technology</i> , 2013, 15, 376-381.	1.5	8
46	Surface plasmon resonance of metal nanostructures as a complementary technique for microscopic size measurement. <i>International Nano Letters</i> , 2013, 3, 1.	5.0	33
47	Photocatalytic Performance of TiO <sub>2</sub> Nanofibers as a Function of Fiber Diameter Using TiCl <sub>2</sub> as a Precursor. <i>Journal of Materials</i> , 2013, 2013, 1-8.	0.1	1
48	Simple One-Pot Fabrication of Gold Decorated Carbon Nanotubes for Enhanced Field Emission Application. <i>Science of Advanced Materials</i> , 2013, 5, 1999-2006.	0.7	2
49	Antibacterial properties of nanoparticles. <i>Trends in Biotechnology</i> , 2012, 30, 499-511.	9.3	2,113
50	Bacterial Effects and Protein Corona Evaluations: Crucial Ignored Factors in the Prediction of Bio-Efficacy of Various Forms of Silver Nanoparticles. <i>Chemical Research in Toxicology</i> , 2012, 25, 1231-1242.	3.3	106
51	A twice liquid arc discharge approach for synthesis of visible-light-active nanocrystalline Ag:ZnO photocatalyst. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 401-410.	2.3	18
52	Synthesis and Characterization of ZrO <sub>2</sub> Nanoparticles by an Arc Discharge Method in Water. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2011, 41, 425-428.	0.6	13
53	Metal and Metal Oxide Nanostructures Prepared by Electrical Arc Discharge Method in Liquids. <i>Journal of Cluster Science</i> , 2011, 22, 233-266.	3.3	37
54	Visible light photo-and bioactivity of Ag/TiO <sub>2</sub> nanocomposite with various silver contents. <i>Current Applied Physics</i> , 2011, 11, 1048-1055.	2.4	87

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55	Comparison of self-fields effects in two-stream electromagnetically pumped FEL with ion-channel guiding and axial magnetic field. <i>Journal of Plasma Physics</i> , 2011, 77, 765-776.	2.1	3
56	Photocatalytic activity of ZnO nanoparticles prepared via submerged arc discharge method. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 1097-1102.	2.3	41
57	A novel method for synthesis of colloidal silver nanoparticles by arc discharge in liquid. <i>Current Applied Physics</i> , 2010, 10, 1442-1447.	2.4	86
58	On the Formation of TiO <sub>2</sub> Nanoparticles Via Submerged Arc Discharge Technique: Synthesis, Characterization and Photocatalytic Properties. <i>Journal of Cluster Science</i> , 2010, 21, 753-766.	3.3	37
59	Photocatalytic activity of ZrO <sub>2</sub> nanoparticles prepared by electrical arc discharge method in water. <i>Polyhedron</i> , 2010, 29, 1370-1374.	2.2	62
60	Employment of the electrical arc discharge method to prepare Titania nanoparticles in oxygen bubbled water: Synthesis, characterization and photocatalytic activity. , 2010, , .		0
61	ZnO nanoparticles prepared by electrical arc discharge method in water. <i>Materials Chemistry and Physics</i> , 2009, 118, 6-8.	4.0	72
62	Rapid and efficient synthesis of colloidal gold nanoparticles by arc discharge method. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 423-428.	2.3	32
63	Superhydrophilicity of TiO <sub>2</sub> thin films using TiCl <sub>4</sub> as a precursor. <i>Materials Research Bulletin</i> , 2008, 43, 522-530.	5.2	57
64	Synthesis and photocatalytic activity of WO <sub>3</sub> nanoparticles prepared by the arc discharge method in deionized water. <i>Nanotechnology</i> , 2008, 19, 195709.	2.6	115