

# 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	Antibacterial properties of nanoparticles. Trends in Biotechnology, 2012, 30, 499-511.	9.3	2,113
2	Graphene: Promises, Facts, Opportunities, and Challenges in Nanomedicine. Chemical Reviews, 2013, 113, 3407-3424.	47.7	643
3	Synthesis and photocatalytic activity of WO <sub>3</sub> nanoparticles prepared by the arc discharge method in deionized water. Nanotechnology, 2008, 19, 195709.	2.6	115
4	Bacterial Effects and Protein Corona Evaluations: Crucial Ignored Factors in the Prediction of Bio-Efficacy of Various Forms of Silver Nanoparticles. Chemical Research in Toxicology, 2012, 25, 1231-1242.	3.3	106
5	Double-doped TiO <sub>2</sub> nanoparticles as an efficient visible-light-active photocatalyst and antibacterial agent under solar simulated light. Applied Surface Science, 2014, 301, 338-345.	6.1	88
6	Visible light photo-and bioactivity of Ag/TiO <sub>2</sub> nanocomposite with various silver contents. Current Applied Physics, 2011, 11, 1048-1055.	2.4	87
7	A novel method for synthesis of colloidal silver nanoparticles by arc discharge in liquid. Current Applied Physics, 2010, 10, 1442-1447.	2.4	86
8	ZnO nanoparticles prepared by electrical arc discharge method in water. Materials Chemistry and Physics, 2009, 118, 6-8.	4.0	72
9	Fabrication of a gold nanocage/graphene nanoscale platform for electrocatalytic detection of hydrazine. Sensors and Actuators B: Chemical, 2017, 245, 55-65.	7.8	65
10	Photocatalytic activity of ZrO <sub>2</sub> nanoparticles prepared by electrical arc discharge method in water. Polyhedron, 2010, 29, 1370-1374.	2.2	62
11	Superhydrophilicity of TiO <sub>2</sub> thin films using TiCl <sub>4</sub> as a precursor. Materials Research Bulletin, 2008, 43, 522-530.	5.2	57
12	Two-Dimensional Nanomaterials beyond Graphene for Biomedical Applications. Journal of Functional Biomaterials, 2022, 13, 27.	4.4	55
13	ZnO nanoparticles decorated on graphene sheets through liquid arc discharge approach with enhanced photocatalytic performance under visible-light. Applied Surface Science, 2015, 342, 112-119.	6.1	54
14	Electrospun CuO-ZnO nanohybrid: Tuning the nanostructure for improved amperometric detection of hydrogen peroxide as a non-enzymatic sensor. Journal of Colloid and Interface Science, 2019, 550, 180-189.	9.4	50
15	Photocatalytic activity of ZnO nanoparticles prepared via submerged arc discharge method. Applied Physics A: Materials Science and Processing, 2010, 100, 1097-1102.	2.3	41
16	TiO <sub>2</sub> nanoparticles immobilized on carbon nanotubes for enhanced visible-light photo-induced activity. Journal of Materials Research and Technology, 2015, 4, 126-132.	5.8	39
17	Gold nanocages decorated biocompatible amine functionalized graphene as an efficient dopamine sensor platform. Journal of Colloid and Interface Science, 2017, 494, 290-299.	9.4	38
18	Charge-driven condensation of RNA and proteins suggests broad role of phase separation in cytoplasmic environments. ELife, 2021, 10, .	6.0	38

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19	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
20	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
21	Determination of nanoparticles using UV-Vis spectra. <i>Nanoscale</i> , 2015, 7, 5134-5139.	5.6	37
22	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
23	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
24	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
25	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
26	Mapping the heterogeneity of protein corona by <i>ex vivo</i> magnetic levitation. <i>Nanoscale</i> , 2020, 12, 2374-2383.	5.6	31
27	Magnetic Levitation Systems for Disease Diagnostics. <i>Trends in Biotechnology</i> , 2021, 39, 311-321.	9.3	31
28	Parametric investigation of CNT deposition on cement by CVD process. <i>Construction and Building Materials</i> , 2016, 113, 523-535.	7.2	28
29	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
30	Magnetically Levitated Plasma Proteins. <i>Analytical Chemistry</i> , 2020, 92, 1663-1668.	6.5	27
31	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
32	Synthesis of a solar photo and bioactive CNT@TiO <sub>2</sub> nanocatalyst. <i>RSC Advances</i> , 2013, 3, 18529.	3.6	22
33	Controlling the Geometry of Silver Nanostructures for Biological Applications. <i>Physics Procedia</i> , 2013, 40, 76-83.	1.2	22
34	Evolving Magnetically Levitated Plasma Proteins Detects Opioid Use Disorder as a Model Disease. <i>Advanced Healthcare Materials</i> , 2020, 9, 1901608.	7.6	22
35	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
36	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

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37	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
38	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
39	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
40	The File Drawer Problem in Nanomedicine. <i>Trends in Biotechnology</i> , 2021, 39, 425-427.	9.3	12
41	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
42	Tuning the Plasmon of Metallic Nanostructures: From Silver Nanocubes Toward Gold Nanoboxes. <i>Plasmonics</i> , 2016, 11, 1011-1017.	3.4	10
43	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
44	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
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	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
47	Magnetic levitation: a physical tool to measure the density of unknown diamagnetic materials. <i>Physics Education</i> , 2021, 56, 055020.	0.5	6
48	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
49	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
50	Destructive effect of solar light on morphology of colloidal silver nanocubes. <i>Colloid Journal</i> , 2016, 78, 577-585.	1.3	4
51	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
52	Shape Dependent Antibacterial Activity of Various Forms of ZnO Nanostructures. <i>BioNanoScience</i> , 2021, 11, 893-900.	3.5	4
53	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
54	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

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55	Synthesis of Highly Crystalline Needle-Like Silicon Nanowires for Enhanced Field Emission Applications. <i>Silicon</i> , 2017, 9, 379-384.	3.3	3
56	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
57	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
58	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
59	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
60	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
61	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
62	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
63	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
64	Employment of the electrical arc discharge method to prepare Titania nanoparticles in oxygen bubbled water: Synthesis, characterization and photocatalytic activity. , 2010, , .		0