

# Aziz GenÃ§

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

2,369  
citations

236833

25  
h-index

206029

48  
g-index

57  
all docs

57  
docs citations

57  
times ranked

4840  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-yield synthesis and optical properties of g-C <sub>3</sub> N <sub>4</sub> . <i>Nanoscale</i> , 2015, 7, 12343-12350.	2.8	303
2	Polymer-Enhanced Stability of Inorganic Perovskite Nanocrystals and Their Application in Color Conversion LEDs. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19579-19586.	4.0	295
3	High-performance thermoelectric nanocomposites from nanocrystal building blocks. <i>Nature Communications</i> , 2016, 7, 10766.	5.8	224
4	What do you do, titanium? Insight into the role of titanium oxide as a water oxidation promoter in hematite-based photoanodes. <i>Energy and Environmental Science</i> , 2015, 8, 3242-3254.	15.6	147
5	Hollow metal nanostructures for enhanced plasmonics: synthesis, local plasmonic properties and applications. <i>Nanophotonics</i> , 2017, 6, 193-213.	2.9	107
6	Synergistic effects in 3D honeycomb-like hematite nanoflakes/branched polypyrrole nanoleaves heterostructures as high-performance negative electrodes for asymmetric supercapacitors. <i>Nano Energy</i> , 2016, 22, 189-201.	8.2	102
7	Solvothermal, Chloroalkoxide-based Synthesis of Monoclinic WO <sub>3</sub> Quantum Dots and Gas-Sensing Enhancement by Surface Oxygen Vacancies. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 16808-16816.	4.0	78
8	Cobalt boride modified with N-doped carbon nanotubes as a high-performance bifunctional oxygen electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21122-21129.	5.2	73
9	Mn <sub>3</sub> O <sub>4</sub> @CoMn <sub>2</sub> O <sub>4</sub> "Co <sub>x</sub> O <sub>y</sub> Nanoparticles: Partial Cation Exchange Synthesis and Electrocatalytic Properties toward the Oxygen Reduction and Evolution Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17435-17444.	4.0	72
10	Pd <sub>2</sub> Sn [010] nanorods as a highly active and stable ethanol oxidation catalyst. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16706-16713.	5.2	65
11	Cu <sub>2</sub> ZnSnS <sub>4</sub> "Ag <sub>2</sub> S Nanoscale "n Heterostructures as Sensitizers for Photoelectrochemical Water Splitting. <i>Langmuir</i> , 2015, 31, 10555-10561.	1.6	55
12	Cu <sub>2</sub> ZnSnS <sub>4</sub> "PtM (M = Co, Ni) Nanoheterostructures for Photocatalytic Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21882-21888.	1.5	50
13	Tuning the Plasmonic Response up: Hollow Cuboid Metal Nanostructures. <i>ACS Photonics</i> , 2016, 3, 770-779.	3.2	49
14	Probing the surface reactivity of nanocrystals by the catalytic degradation of organic dyes: the effect of size, surface chemistry and composition. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11917-11929.	5.2	49
15	Ligand-Mediated Band Engineering in Bottom-Up Assembled SnTe Nanocomposites for Thermoelectric Energy Conversion. <i>Journal of the American Chemical Society</i> , 2019, 141, 8025-8029.	6.6	47
16	Scalable Heating-Up Synthesis of Monodisperse Cu <sub>2</sub> ZnSnS <sub>4</sub> Nanocrystals. <i>Chemistry of Materials</i> , 2016, 28, 720-726.	3.2	43
17	Co "Cu Nanoparticles: Synthesis by Galvanic Replacement and Phase Rearrangement during Catalytic Activation. <i>Langmuir</i> , 2016, 32, 2267-2276.	1.6	37
18	Fabrication and characterization of Ni "W solid solution alloys via mechanical alloying and pressureless sintering. <i>Materials &amp; Design</i> , 2012, 42, 495-504.	5.1	36

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19	Polarized emission from CsPbBr <sub>3</sub> nanowire embedded-electrospun PU fibers. Nanotechnology, 2018, 29, 135202.	1.3	35
20	Synergetic activity enhancement in 2D CuO-Fe <sub>2</sub> O <sub>3</sub> nanocomposites for the photodegradation of rhodamine B. Ceramics International, 2019, 45, 9174-9178.	2.3	34
21	Plasmon-enhanced photocatalytic and antibacterial activity of gold nanoparticles-decorated hematite nanostructures. Journal of Alloys and Compounds, 2021, 852, 157021.	2.8	34
22	Acetone sensors based on TiO <sub>2</sub> nanocrystals modified with tungsten oxide species. Journal of Alloys and Compounds, 2016, 665, 345-351.	2.8	32
23	Size and Aspect Ratio Control of Pd <sub>2</sub> Sn Nanorods and Their Water Denitration Properties. Langmuir, 2015, 31, 3952-3957.	1.6	29
24	Fabrication and properties of mechanically alloyed and Ni activated sintered W matrix composites reinforced with Y <sub>2</sub> O <sub>3</sub> and TiB <sub>2</sub> particles. Materials Characterization, 2010, 61, 740-748.	1.9	27
25	Tuning Transport Properties in Thermoelectric Nanocomposites through Inorganic Ligands and Heterostructured Building Blocks. ACS Nano, 2019, 13, 6572-6580.	7.3	27
26	Fabrication of in situ Ni(W)-WC nano composites via mechanical alloying and spark plasma sintering. Journal of Alloys and Compounds, 2012, 542, 97-104.	2.8	24
27	Characterization investigations during mechanical alloying and sintering of Ni-W solid solution alloys dispersed with WC and Y <sub>2</sub> O <sub>3</sub> particles. Journal of Alloys and Compounds, 2010, 508, 162-171.	2.8	23
28	Surface Modification of TiO <sub>2</sub> Nanocrystals by WO <sub>x</sub> Coating or Wrapping: Solvothermal Synthesis and Enhanced Surface Chemistry. ACS Applied Materials & Interfaces, 2015, 7, 6898-6908.	4.0	21
29	One-pot polyol synthesis of highly monodisperse short green silver nanorods. Chemical Communications, 2016, 52, 10960-10963.	2.2	20
30	Mesoporous nanocrystalline ZnO microspheres by ethylene glycol mediated thermal decomposition. Advanced Powder Technology, 2018, 29, 3455-3461.	2.0	20
31	The Importance of Surface Adsorbates in Solution-Processed Thermoelectric Materials: The Case of SnSe. Advanced Materials, 2021, 33, e2106858.	11.1	19
32	Inorganic Photocatalytic Enhancement: Activated RhB Photodegradation by Surface Modification of SnO <sub>2</sub> Nanocrystals with V <sub>2</sub> O <sub>5</sub> -like species. Scientific Reports, 2017, 7, 44763.	1.6	17
33	Decarburization of TiC in Ni activated sintered W-xTiC (x=0, 5, 10, 15 wt%) composites and the effects of heat treatment on the microstructural and physical properties. International Journal of Refractory Metals and Hard Materials, 2010, 28, 451-458.	1.7	16
34	Effects of Al <sub>2</sub> O <sub>3</sub> addition on the microstructure and properties of Ni activated sintered W matrix composites. International Journal of Refractory Metals and Hard Materials, 2012, 32, 33-38.	1.7	16
35	Polybenzoxazine-Derived N-doped Carbon as Matrix for Powder-Based Electrocatalysts. ChemSusChem, 2017, 10, 2653-2659.	3.6	16
36	Optimization and performance of nitrogen-doped carbon dots as a color conversion layer for white-LED applications. Beilstein Journal of Nanotechnology, 2019, 10, 2004-2013.	1.5	14

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37	Hollow PdAg-CeO <sub>2</sub> heterodimer nanocrystals as highly structured heterogeneous catalysts. Scientific Reports, 2019, 9, 18776.	1.6	13
38	Exploiting the Lability of Metal Halide Perovskites for Doping Semiconductor Nanocomposites. ACS Energy Letters, 2021, 6, 581-587.	8.8	12
39	Acetone Sensing with TiO <sub>2</sub> -WO <sub>3</sub> Nanocomposites: An Example of Response Enhancement by Inter-oxide Cooperative Effects. Procedia Engineering, 2014, 87, 803-806.	1.2	11
40	Effects of La <sub>2</sub> O <sub>3</sub> Addition on the Microstructure and Properties of Activated Sintered W-Ni Compacts. Solid State Phenomena, 0, 194, 217-221.	0.3	9
41	In situ template synthesis of gold nanoparticles using a bis-imidazolium amphiphile-based hydrogel. Journal of Colloid and Interface Science, 2015, 446, 53-58.	5.0	9
42	Robust one-pot synthesis of citrate-stabilized Au@CeO <sub>2</sub> hybrid nanocrystals with different thickness and dimensionality. Applied Materials Today, 2019, 15, 445-452.	2.3	9
43	Comparison of the ORR Activity of Carbon Supported PtCo/C and PtSnCo/C Electrocatalysts for PEM Fuel Cells. ECS Transactions, 2011, 41, 1031-1042.	0.3	7
44	Development of Mechanically Alloyed and Sintered W-1 wt.% Ni Matrix Composites Reinforced with TiB <sub>2</sub> . Solid State Phenomena, 0, 194, 194-198.	0.3	7
45	Microstructural evolution of mechanically alloyed and spark plasma sintered Ni-W alloy matrix composites. Journal of Alloys and Compounds, 2013, 571, 159-167.	2.8	7
46	Characterization of Ni-W solid solution alloy powders and sintered compacts synthesized via mechanically activated hydrogen reduction of NiO-WO <sub>3</sub> mixtures. Metals and Materials International, 2013, 19, 813-819.	1.8	5
47	Synthesis of W-3 wt% Mn-2 wt% VC composites by high energy milling and sintering. Metals and Materials International, 2013, 19, 533-541.	1.8	5
48	The Ethylhexanoate Route to Metal Oxide Nanocrystals: Synthesis of CoO Nanooctahedra from Coll 2-Ethylhexanoate. European Journal of Inorganic Chemistry, 2016, 2016, 3963-3968.	1.0	5
49	Facile synthesis of ZnO nanostructures and enhancement of their sinterability via short-time cryo-milling. Ceramics International, 2017, 43, 1710-1715.	2.3	5
50	Synthesis, Bottom up Assembly and Thermoelectric Properties of Sb-Doped PbS Nanocrystal Building Blocks. Materials, 2021, 14, 853.	1.3	5
51	Green fabrication of lanthanide-doped hydroxide-based phosphors: Y(OH) <sub>3</sub> :Eu <sup>3+</sup> nanoparticles for white light generation. Beilstein Journal of Nanotechnology, 2019, 10, 1200-1210.	1.5	2
52	Surface modification, heterojunctions, and other structures: composing metal oxide nanocrystals for chemical sensors. Proceedings of SPIE, 2015, , .	0.8	0