

Hassan Algadi

List of Publications by Year in descending order

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48
papers

1,615
citations

430442

18
h-index

301761

39
g-index

50
all docs

50
docs citations

50
times ranked

2278
citing authors

#	ARTICLE	IF	CITATIONS
1	Ag Nanowire Reinforced Highly Stretchable Conductive Fibers for Wearable Electronics. <i>Advanced Functional Materials</i> , 2015, 25, 3114-3121.	7.8	493
2	Highly Sensitive Pressure Sensor Based on Bioinspired Porous Structure for Real-Time Tactile Sensing. <i>Advanced Electronic Materials</i> , 2016, 2, 1600356.	2.6	264
3	Biomimetic-inspired micro-nano hierarchical structures for capacitive pressure sensor applications. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 151, 107095.	2.5	88
4	Superhydrophobic, Transparent, and Stretchable 3D Hierarchical Wrinkled Film-Based Sensors for Wearable Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1900230.	3.0	60
5	Highly conductive and flexible fiber for textile electronics obtained by extremely low-temperature atomic layer deposition of Pt. <i>NPG Asia Materials</i> , 2016, 8, e331-e331.	3.8	51
6	CdO-ZnO nanorices for enhanced and selective formaldehyde gas sensing applications. <i>Environmental Research</i> , 2021, 200, 111377.	3.7	42
7	Influence of mass ratio and calcination temperature on physical and photoelectrochemical properties of ZnFe-layered double oxide/cobalt oxide heterojunction semiconductor for dye degradation applications. <i>Particuology</i> , 2023, 74, 141-155.	2.0	40
8	Enhanced photoresponsivity of anatase titanium dioxide (TiO ₂)/nitrogen-doped graphene quantum dots (N-GQDs) heterojunction-based photodetector. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 1354-1366.	9.9	39
9	Highly sensitive and selective 2-nitroaniline chemical sensor based on Ce-doped SnO ₂ nanosheets/Nafion-modified glassy carbon electrode. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 1015-1026.	9.9	35
10	Perforated Co ₃ O ₄ nanosheets as high-performing supercapacitor material. <i>Electrochimica Acta</i> , 2021, 389, 138661.	2.6	34
11	Nanoporous and hydrophobic new Chitosan-Silica blend aerogels for enhanced oil adsorption capacity. <i>Journal of Cleaner Production</i> , 2022, 351, 131247.	4.6	32
12	Enhanced NO ₂ gas sensor device based on supramolecularly assembled polyaniline/silver oxide/graphene oxide composites. <i>Ceramics International</i> , 2021, 47, 25696-25707.	2.3	31
13	Research progress on catalytic pyrolysis and reuse of waste plastics and petroleum sludge. <i>ES Materials & Manufacturing</i> , 2021, , .	1.1	27
14	Synthesis of porous 2D layered nickel oxide-reduced graphene oxide (NiO-rGO) hybrid composite for the efficient electrochemical detection of epinephrine in biological fluid. <i>Environmental Research</i> , 2021, 200, 111366.	3.7	24
15	Controlled multilevel switching and artificial synapse characteristics in transparent HfAlO-alloy based memristor with embedded TaN nanoparticles. <i>Journal of Materials Science and Technology</i> , 2021, 95, 203-212.	5.6	23
16	Enhanced Photoresponsivity of All-Inorganic (CsPbBr ₃) Perovskite Nanosheets Photodetector with Carbon Nanodots (CDs). <i>Electronics (Switzerland)</i> , 2019, 8, 678.	1.8	22
17	Facile method for the preparation of high-performance photodetectors with a GQDs/perovskite bilayer heterostructure. <i>Organic Electronics</i> , 2020, 76, 105444.	1.4	21
18	Numerical Study to Enhance the Sensitivity of a Surface Plasmon Resonance Sensor with BlueP/WS ₂ -Covered Al ₂ O ₃ -Nickel Nanofilms. <i>Nanomaterials</i> , 2022, 12, 2205.	1.9	20

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19	Direct sunlight-driven enhanced photocatalytic performance of V ₂ O ₅ nanorods/ graphene oxide nanocomposites for the degradation of Victoria blue dye. <i>Environmental Research</i> , 2021, 199, 111369.	3.7	18
20	Design of a unique "ON/OFF" switch electrochemical aptasensor driven by the pH for the detection of Aflatoxin B1 in acid solutions based on titanium carbide/ carboxylated graphene oxide- poly(4-vinyl) Tj ETQq0 0 0 rg85 /Overlook 10 Tf 50	2.5	10
21	Gradual resistive switching and synaptic properties of ITO/HfAlO/ITO device embedded with Pt nanoparticles. <i>Materials Letters</i> , 2021, 298, 130011.	1.3	17
22	Corn-cob-derived Activated Carbon for Efficiently Adsorption Dye in Sewage. <i>ES Food & Agroforestry</i> , 2021, , .	0.4	16
23	The impact of atomic layer deposited SiO ₂ passivation for high-k Ta _x Zr _x O on the InP substrate. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10293-10301.	2.7	13
24	Carbon Nanodots as a Potential Transport Layer for Boosting Performance of All-Inorganic Perovskite Nanocrystals-Based Photodetector. <i>Crystals</i> , 2021, 11, 717.	1.0	13
25	Improvement of Photoresponse Properties of Self-Powered ITO/InP Schottky Junction Photodetector by Interfacial ZnO Passivation. <i>Journal of Electronic Materials</i> , 2021, 50, 1800-1806.	1.0	12
26	Density functional theory insight into metal ions and vacancies for improved performance in storage devices. <i>International Journal of Energy Research</i> , 2021, 45, 10882-10894.	2.2	12
27	Supramolecularly assembled isonicotinamide/reduced graphene oxide nanocomposite for room-temperature NO ₂ gas sensor. <i>Environmental Technology and Innovation</i> , 2022, 25, 102066.	3.0	12
28	Theoretical Investigation of CsBX ₃ (B = Pb, Sn; X = I, Br, Cl) Using Tran-Blaha Modified Becke-Johnson Approximation for Flexible Photoresponsive Memristors. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100011.	1.3	11
29	Tetracyanonickelate (II)/KOH/reduced graphene oxide fabricated carbon felt for mediated electron transfer type electrochemical sensor for efficient detection of N ₂ O gas at room temperature. <i>Environmental Research</i> , 2021, 201, 111591.	3.7	11
30	Electrostatically-induced trajectory switching system on a multi-inlet-multi-outlet superhydrophobic droplet guiding track. <i>RSC Advances</i> , 2015, 5, 5754-5761.	1.7	9
31	Selective ethanol gas sensing performance of flower-shaped CuO composed of thin nanoplates. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 18565-18579.	1.1	9
32	Highly Sensitive and Selective Eco-Toxic 4-Nitrophenol Chemical Sensor Based on Ag-Doped ZnO Nanoflowers Decorated with Nanosheets. <i>Molecules</i> , 2021, 26, 4619.	1.7	9
33	Fabrication and characterization of high-performance photodetectors based on Au/CdS/Au and Au/Ni:CdS/Au junctions. <i>Journal of King Saud University - Science</i> , 2021, 33, 101638.	1.6	9
34	First principles investigation of physically conductive bridge filament formation of aluminum doped perovskite materials for neuromorphic memristive applications. <i>Chaos, Solitons and Fractals</i> , 2021, 150, 111111.	2.5	8
35	First principles investigation of oxygen vacancies filaments in polymorphic Titania and their role in memristor's applications. <i>Chaos, Solitons and Fractals</i> , 2021, 148, 111024.	2.5	7
36	±-MnO ₂ Nanowires as Potential Scaffolds for a High-Performance Formaldehyde Gas Sensor Device. <i>Coatings</i> , 2021, 11, 860.	1.2	7

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37	Deposition of nanostructured Sn doped Co ₃ O ₄ films by a facile nebulizer spray pyrolysis method and fabrication of p-Sn doped Co ₃ O ₄ /n-Si junction diodes for opto-nanoelectronics. Sensors and Actuators A: Physical, 2021, 332, 113067.	2.0	7
38	Methylene blue intercalated layered MnO ₂ nanosheets for high-sensitive non-enzymatic ascorbic acid sensor. Journal of Materials Science: Materials in Electronics, 2021, 32, 8317-8329.	1.1	6
39	p-CuO/n-ZnO Heterojunction Structure for the Selective Detection of Hydrogen Sulphide and Sulphur Dioxide Gases: A Theoretical Approach. Coatings, 2021, 11, 1200.	1.2	6
40	Star-Fruit-Shaped CuO Structures for High Performance Ethanol Gas Sensor Device. Science of Advanced Materials, 2021, 13, 724-733.	0.1	5
41	Ultrathin Leaf-Shaped CuO Nanosheets Based Sensor Device for Enhanced Hydrogen Sulfide Gas Sensing Application. Chemosensors, 2021, 9, 221.	1.8	5
42	Aluminum Doped ZnO Nanorods for Enhanced Phenylhydrazine Chemical Sensor Applications. Science of Advanced Materials, 2021, 13, 2483-2488.	0.1	4
43	Cauliflower-Shaped ZnO Nanostructure for Enhanced NO ₂ Gas Sensor Application. Science of Advanced Materials, 2021, 13, 2358-2363.	0.1	4
44	Nano-structured CuO on Silicon Using a Chemical Bath Deposition Process and Sputter Seed Layer. Journal of Electronic Materials, 2021, 50, 1779-1785.	1.0	2
45	MnO ₂ Nanoparticles Anchored Multi Walled Carbon Nanotubes as Potential Anode Materials for Lithium Ion Batteries. Journal of Nanoscience and Nanotechnology, 2021, 21, 5296-5301.	0.9	2
46	Pressure Sensors: Highly Sensitive Pressure Sensor Based on Bioinspired Porous Structure for Real-Time Tactile Sensing (Adv. Electron. Mater. 12/2016). Advanced Electronic Materials, 2016, 2, .	2.6	1
47	THE FIRST PRINCIPLE STUDY OF COMPARISON OF DIVALENT AND TRIVALENT IMPURITY IN RRAM DEVICES USING GGA+U. Surface Review and Letters, 2021, 28, 2150039.	0.5	1
48	Co-Doped ZnO Nano-Agglomerates as a Potential Scaffold for Non-Enzymatic Hydrogen Peroxide Sensing. Science of Advanced Materials, 2021, 13, 1732-1738.	0.1	1