Hassan Algadi

List of Publications by Year
in descending order

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	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. Particuology, 2023, 74, 141-155.	2.0	40
2	Supramolecularly assembled isonicotinamide/reduced graphene oxide nanocomposite for room-temperature NO2 gas sensor. Environmental Technology and Innovation, 2022, 25, 102066.	3.0	12
3	Nanoporous and hydrophobic new Chitosan-Silica blend aerogels for enhanced oil adsorption capacity. Journal of Cleaner Production, 2022, 351, 131247.	4.6	32
4	Numerical Study to Enhance the Sensitivity of a Surface Plasmon Resonance Sensor with BlueP/WS2-Covered Al2O3-Nickel Nanofilms. Nanomaterials, 2022, 12, 2205.	1.9	20
5	Improvement of Photoresponse Properties of Self-Powered ITO/InP Schottky Junction Photodetector by Interfacial ZnO Passivation. Journal of Electronic Materials, 2021, 50, 1800-1806.	1.0	12
6	Research progress on catalytic pyrolysis and reuse of waste plastics and petroleum sludge. ES Materials & Manufacturing, 2021, , .	1.1	27
7	Corncob-derived Activated Carbon for Efficiently Adsorption Dye in Sewage. ES Food & Agroforestry, 2021, , .	0.4	16
8	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
9	Density functional theory insight into metal ions and vacancies for improved performance in storage devices. International Journal of Energy Research, 2021, 45, 10882-10894.	2.2	12
10	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
11	Methylene blue intercalated layered MnO2 nanosheets for high-sensitive non-enzymatic ascorbic acid sensor. Journal of Materials Science: Materials in Electronics, 2021, 32, 8317-8329.	1.1	6
12	Star-Fruit-Shaped CuO Structures for High Performance Ethanol Gas Sensor Device. Science of Advanced Materials, 2021, 13, 724-733.	0.1	5
13	Theoretical Investigation of CsBX$_3$ (B=Pb, Sn; X = I, Br, Cl) Using Tran–Blaha Modified Becke–Johnson Approximation for Flexible Photoresponsive Memristors. Advanced Theory and Simulations, 2021, 4, 2100011.	1.3	11
14	Gradual resistive switching and synaptic properties of ITO/HfAlO/ITO device embedded with Pt nanoparticles. Materials Letters, 2021, 298, 130011.	1.3	17
15	Selective ethanol gas sensing performance of flower-shaped CuO composed of thin nanoplates. Journal of Materials Science: Materials in Electronics, 2021, 32, 18565-18579.	1.1	9
16	Carbon Nanodots as a Potential Transport Layer for Boosting Performance of All-Inorganic Perovskite Nanocrystals-Based Photodetector. Crystals, 2021, 11, 717.	1.0	13
17	Highly sensitive and selective 2-nitroaniline chemical sensor based on Ce-doped SnO2 nanosheets/Nafion-modified glassy carbon electrode. Advanced Composites and Hybrid Materials, 2021, 4, 1015-1026.	9.9	35
18	First principles investigation of oxygen vacancies filaments in polymorphic Titania and their role in memristor's applications. Chaos, Solitons and Fractals, 2021, 148, 111024.	2.5	7

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19	α-MnO2 Nanowires as Potential Scaffolds for a High-Performance Formaldehyde Gas Sensor Device. Coatings, 2021, 11, 860.	1.2	7
20	Highly Sensitive and Selective Eco-Toxic 4-Nitrophenol Chemical Sensor Based on Ag-Doped ZnO Nanoflowers Decorated with Nanosheets. Molecules, 2021, 26, 4619.	1.7	9
21	Ultrathin Leaf-Shaped CuO Nanosheets Based Sensor Device for Enhanced Hydrogen Sulfide Gas Sensing Application. Chemosensors, 2021, 9, 221.	1.8	5
22	Direct sunlight-driven enhanced photocatalytic performance of V2O5 nanorods/ graphene oxide nanocomposites for the degradation of Victoria blue dye. Environmental Research, 2021, 199, 111369.	3.7	18
23	Perforated Co3O4 nanosheets as high-performing supercapacitor material. Electrochimica Acta, 2021, 389, 138661.	2.6	34
24	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
25	Synthesis of porous 2D layered nickel oxide-reduced graphene oxide (NiO-rGO) hybrid composite for the efficient electrochemical detection of epinephrine in biological fluid. Environmental Research, 2021, 200, 111366.	3.7	24
26	CdO–ZnO nanorices for enhanced and selective formaldehyde gas sensing applications. Environmental Research, 2021, 200, 111377.	3.7	42
27	Enhanced NO2 gas sensor device based on supramolecularly assembled polyaniline/silver oxide/graphene oxide composites. Ceramics International, 2021, 47, 25696-25707.	2.3	31
28	First principles investigation of physically conductive bridge filament formation of aluminum doped perovskite materials for neuromorphic memristive applications. Chaos, Solitons and Fractals, 2021, 150, 111111.	2.5	8
29	MnO2 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
30	Tetracyanonickelate (II)/KOH/reduced graphene oxide fabricated carbon felt for mediated electron transfer type electrochemical sensor for efficient detection of N2O gas at room temperature. Environmental Research, 2021, 201, 111591.	3.7	11
31	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 ETQq1 1 0.784314 rgBT /Overlo		
32	Controlled multilevel switching and artificial synapse characteristics in transparent HfAlO-alloy based memristor with embedded TaN nanoparticles. Journal of Materials Science and Technology, 2021, 95, 203-212.	5.6	23
33	Deposition of nanostructured Sn doped Co3O4 films by a facile nebulizer spray pyrolysis method and fabrication of p-Sn doped Co3O4/n-Si junction diodes for opto-nanoelectronics. Sensors and Actuators A: Physical, 2021, 332, 113067.	2.0	7
34	Enhanced photoresponsivity of anatase titanium dioxide (TiO2)/nitrogen-doped graphene quantum dots (N-GQDs) heterojunction-based photodetector. Advanced Composites and Hybrid Materials, 2021, 4, 1354-1366.	9.9	39
35	Fabrication and characterization of high-performance photodetectors based on Au/CdS/Au and Au/Ni:CdS/Au junctions. Journal of King Saud University - Science, 2021, 33, 101638.	1.6	9
36	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

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37	Aluminum Doped ZnO Nanorods for Enhanced Phenylhydrazine Chemical Sensor Applications. Science of Advanced Materials, 2021, 13, 2483-2488.	0.1	4
38	Cauliflower-Shaped ZnO Nanostructure for Enhanced NO_2 Gas Sensor Application. Science of Advanced Materials, 2021, 13, 2358-2363.	0.1	4
39	Facile method for the preparation of high-performance photodetectors with a GQDs/perovskite bilayer heterostructure. Organic Electronics, 2020, 76, 105444.	1.4	21
40	Biomimetic-inspired micro-nano hierarchical structures for capacitive pressure sensor applications. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107095.	2.5	88
41	Superhydrophobic, Transparent, and Stretchable 3D Hierarchical Wrinkled Film–Based Sensors for Wearable Applications. Advanced Materials Technologies, 2019, 4, 1900230.	3.0	60
42	Enhanced Photoresponsivity of All-Inorganic (CsPbBr3) Perovskite Nanosheets Photodetector with Carbon Nanodots (CDs). Electronics (Switzerland), 2019, 8, 678.	1.8	22
43	Highly conductive and flexible fiber for textile electronics obtained by extremely low-temperature atomic layer deposition of Pt. NPG Asia Materials, 2016, 8, e331-e331.	3.8	51
44	Highly Sensitive Pressure Sensor Based on Bioinspired Porous Structure for Real–Time Tactile Sensing. Advanced Electronic Materials, 2016, 2, 1600356.	2.6	264
45	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
46	Ag Nanowire Reinforced Highly Stretchable Conductive Fibers for Wearable Electronics. Advanced Functional Materials, 2015, 25, 3114-3121.	7.8	493
47	The impact of atomic layer deposited SiO_2 passivation for high-k $Ta_{1-x}Zr_xO$ on the InP substrate. Journal of Materials Chemistry C, 2015, 3, 10293-10301.	2.7	13
48	Electrostatically-induced trajectory switching system on a multi-inlet-multi-outlet superhydrophobic droplet guiding track. RSC Advances, 2015, 5, 5754-5761.	1.7	9