

Mohammad Karbalaee Akbari

List of Publications by Citations

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47
papers

990
citations

17
h-index

31
g-index

48
ext. papers

1,236
ext. citations

6.8
avg, IF

4.77
L-index

#	Paper	IF	Citations
47	Carbon fiber reinforced metal matrix composites: Fabrication processes and properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 92, 70-96	8.4	275
46	Electrochemical non-enzymatic glucose sensor based on hierarchical 3D Co ₃ O ₄ /Ni heterostructure electrode for pushing sensitivity boundary to a new limit. <i>Sensors and Actuators B: Chemical</i> , 2018 , 267, 93-103	8.5	71
45	Atomic layer deposition-enabled single layer of tungsten trioxide across a large area. <i>Applied Materials Today</i> , 2017 , 6, 44-53	6.6	47
44	A bioinspired optoelectronically engineered artificial neurorobotics device with sensorimotor functionalities. <i>Nature Communications</i> , 2019 , 10, 3873	17.4	44
43	Nano-thickness dependence of supercapacitor performance of the ALD-fabricated two-dimensional WO ₃ . <i>Electrochimica Acta</i> , 2017 , 246, 625-633	6.7	42
42	Al-TiB ₂ micro/nanocomposites: Particle capture investigations, strengthening mechanisms and mathematical modelling of mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 682, 98-106	5.3	42
41	Wafer-scaled monolayer WO ₃ windows ultra-sensitive, extremely-fast and stable UV-A photodetection. <i>Applied Surface Science</i> , 2017 , 405, 169-177	6.7	41
40	Atomic layer deposition-developed two-dimensional HfMoO ₃ windows excellent hydrogen peroxide electrochemical sensing capabilities. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 334-344	8.5	38
39	Wafer-scale fabrication of conformal atomic-layered TiO ₂ by atomic layer deposition using tetrakis (dimethylamino) titanium and H ₂ O precursors. <i>Materials and Design</i> , 2017 , 120, 99-108	8.1	37
38	ALD-Developed Plasmonic Two-Dimensional Au-WO-TiO Heterojunction Architectonics for Design of Photovoltaic Devices. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10304-10314	9.5	33
37	Fight against COVID-19: The case of antiviral surfaces. <i>APL Materials</i> , 2021 , 9, 031112	5.7	33
36	Photodetector with superior functional capabilities based on monolayer WO ₃ developed by atomic layer deposition. <i>Sensors and Actuators B: Chemical</i> , 2017 , 245, 954-962	8.5	27
35	Atomically-thin WO ₃ /TiO ₂ heterojunction for supercapacitor electrodes developed by atomic layer deposition. <i>Composites Communications</i> , 2017 , 5, 31-35	6.7	26
34	Interfacial engineering of two-dimensional nano-structured materials by atomic layer deposition. <i>Applied Surface Science</i> , 2017 , 392, 231-243	6.7	22
33	TiO ₂ nanoparticles-functionalized two-dimensional WO ₃ for high-performance supercapacitors developed by facile two-step ALD process. <i>Materials Today Communications</i> , 2017 , 12, 55-62	2.5	19
32	Sonochemical functionalization of the low-dimensional surface oxide of Galinstan for heterostructured optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5584-5595	7.1	18
31	Carbon-doped MoS ₂ nanosheet photocatalysts for efficient degradation of methyl orange. <i>Ionics</i> , 2017 , 23, 1921-1925	2.7	17

30	Nanoscale All-Oxide-Heterostructured Bio-inspired Optoresponsive Nociceptor. <i>Nano-Micro Letters</i> , 2020 , 12, 83	19.5	16
29	Wafer-scale two-dimensional Au-TiO ₂ bilayer films for photocatalytic degradation of Palmitic acid under UV and visible light illumination. <i>Materials Research Bulletin</i> , 2017 , 95, 380-391	5.1	16
28	Nano TiB ₂ and TiO ₂ reinforced composites: A comparative investigation on strengthening mechanisms and predicting mechanical properties via neural network modeling. <i>Ceramics International</i> , 2017 , 43, 16799-16810	5.1	15
27	Ultra-thin MoO ₃ film goes wafer-scaled nano-architectonics by atomic layer deposition. <i>Materials and Design</i> , 2018 , 149, 135-144	8.1	14
26	Ultrasensitive, Sustainable, and Selective Electrochemical Hydrazine Detection by ALD-Developed Two-Dimensional WO ₃ . <i>ChemElectroChem</i> , 2018 , 5, 266-272	4.3	13
25	Highly Sensitive, Fast-Responding, and Stable Photodetector Based on ALD-Developed Monolayer TiO ₂ . <i>IEEE Nanotechnology Magazine</i> , 2017 , 16, 880-887	2.6	12
24	Nano-engineering and functionalization of hybrid Au-MeO-TiO (Me = W, Ga) hetero-interfaces for optoelectronic receptors and nociceptors. <i>Nanoscale</i> , 2020 , 12, 20177-20188	7.7	12
23	State-of-the-art surface oxide semiconductors of liquid metals: an emerging platform for development of multifunctional two-dimensional materials. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 34-73	13	12
22	Heterostructured plasmonic memristors with tunable opto-synaptic functionalities. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2539-2549	7.1	9
21	Data set for fabrication of conformal two-dimensional TiO by atomic layer deposition using tetrakis (dimethylamino) titanium (TDMAT) and HO precursors. <i>Data in Brief</i> , 2017 , 13, 401-407	1.2	8
20	Electrochromic Photodetectors: Toward Smarter Glasses and Nano Reflective Displays via an Electrolytic Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27997-28004	9.5	6
19	Atomic layer deposition †state-of-the-art approach to nanoscale hetero-interfacial engineering of chemical sensors electrodes: A review. <i>Sensors and Actuators B: Chemical</i> , 2021 , 331, 129403	8.5	6
18	Engineering the Surface Structure of MoS ₂ Nanosheets by Carbon-Doping with Rich Defects to Tune UV-Visible Light Absorption Property. <i>Key Engineering Materials</i> , 2017 , 735, 185-188	0.4	3
17	Ultrathin Two-Dimensional Semiconductors for Novel Electronic Applications		3
16	Plasma-induced sub-10 nm Au-SnO ₂ -In ₂ O ₃ heterostructures fabricated by atomic layer deposition for highly sensitive ethanol detection on ppm level. <i>Applied Surface Science</i> , 2021 , 563, 150400	6.7	3
15	Chemical Vapor Deposition of †Two-Dimensional Semiconductors 2020 , 1-42		2
14	Dynamic Self-Rectifying Liquid Metal-Semiconductor Heterointerfaces: A Platform for Development of Bioinspired Afferent Systems. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	2
13	Artificial Synaptic Devices Based on Two-Dimensional Semiconductors 2020 , 229-274		1

12	2D Semiconductor Nanomaterials and Heterostructures: Controlled Synthesis and Functional Applications. <i>Nanoscale Research Letters</i> , 2021 , 16, 94	5	1
11	Nanostructure-induced performance degradation of WO ₃ /HO for energy conversion and storage devices. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 2845-2854	3	1
10	Plasma-enhanced elemental enrichment of liquid metal interfaces: Towards realization of GaS nanodomains in two-dimensional Ga ₂ O ₃ . <i>Applied Materials Today</i> , 2022 , 27, 101461	6.6	1
9	Tunability of near infrared opto-synaptic properties of thin MoO ₃ films fabricated by atomic layer deposition. <i>Applied Surface Science</i> , 2022 , 593, 153399	6.7	1
8	Bioinspired Patterned Photonic Junctions for Plasmon-Enhanced Metal Photoluminescence and Fluorescence: Design of Optical Cavities for Near-Infrared Electronics. <i>Materials Today Energy</i> , 2022 , 101003	7	0
7	Atomic Layer Deposition of Ultra-Thin Oxide Semiconductors: Challenges and Opportunities. <i>Key Engineering Materials</i> , 2017 , 735, 215-218	0.4	
6	Memristive Devices Based on Ultrathin 2D Materials 2020 , 171-228		
5	Photonic and Plasmonic Devices Based on Two-Dimensional Semiconductors 2020 , 145-170		
4	Hetero-Interfaces in 2D-Based Semiconductor Devices 2020 , 111-144		
3	Self-Limiting Two-Dimensional Surface Oxides of Liquid Metals 2020 , 79-110		
2	Atomic Layer Deposition of Two-Dimensional Semiconductors 2020 , 43-78		
1	Sensorimotor Devices Based on Two-Dimensional Semiconductor Materials 2020 , 275-307		