

Serge Zhuiykov

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

2,680
citations

27
h-index

50
g-index

92
ext. papers

3,085
ext. citations

6.4
avg, IF

5.45
L-index

#	Paper	IF	Citations
84	Two-Dimensional Molybdenum Trioxide and Dichalcogenides. <i>Advanced Functional Materials</i> , 2013 , 23, 3952-3970	15.6	378
83	Atomically thin layers of MoS ₂ via a two step thermal evaporation-exfoliation method. <i>Nanoscale</i> , 2012 , 4, 461-6	7.7	221
82	Electrodeposited α and β Phase MoO ₃ Films and Investigation of Their Gasochromic Properties. <i>Crystal Growth and Design</i> , 2012 , 12, 1865-1870	3.5	173
81	Investigation of Two-Solvent Grinding-Assisted Liquid Phase Exfoliation of Layered MoS ₂ . <i>Chemistry of Materials</i> , 2015 , 27, 53-59	9.6	160
80	Electronic Tuning of 2D MoS ₂ through Surface Functionalization. <i>Advanced Materials</i> , 2015 , 27, 6225-9	24	158
79	Plasmon resonances of highly doped two-dimensional MoS ₂ . <i>Nano Letters</i> , 2015 , 15, 883-90	11.5	145
78	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
77	Enhancing the current density of electrodeposited ZnO/TiO ₂ solar cells by engineering their heterointerfaces. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21767		65
76	MnO ₂ -Based Thermopower Wave Sources with Exceptionally Large Output Voltages. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9137-9142	3.8	60
75	Morphology of Pt-doped nanofabricated RuO ₂ sensing electrodes and their properties in water quality monitoring sensors. <i>Sensors and Actuators B: Chemical</i> , 2009 , 136, 248-256	8.5	56
74	Proton intercalated two-dimensional WO ₃ nano-flakes with enhanced charge-carrier mobility at room temperature. <i>Nanoscale</i> , 2014 , 6, 15029-36	7.7	53
73	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
72	Engineering electrodeposited ZnO films and their memristive switching performance. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10376-84	3.6	45
71	A bioinspired optoelectronically engineered artificial neurorobotics device with sensorimotor functionalities. <i>Nature Communications</i> , 2019 , 10, 3873	17.4	44
70	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
69	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
68	Carbon monoxide detection at low temperatures by semiconductor sensor with nanostructured Au-doped CoOOH films. <i>Sensors and Actuators B: Chemical</i> , 2008 , 129, 431-441	8.5	39

67	Atomic layer deposition-developed two-dimensional HMoO ₃ windows excellent hydrogen peroxide electrochemical sensing capabilities. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 334-344	8.5	38
66	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
65	Facile-synthesized NiCo ₂ O ₄ @MnMoO ₄ with novel and functional structure for superior performance supercapacitors. <i>Applied Surface Science</i> , 2018 , 452, 413-422	6.7	37
64	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
63	Potentiometric sensor using sub-micron Cu ₂ O-doped RuO ₂ sensing electrode with improved antifouling resistance. <i>Talanta</i> , 2010 , 82, 502-7	6.2	33
62	Morphology and sensing characteristics of nanostructured RuO ₂ electrodes for integrated water quality monitoring sensors. <i>Electrochemistry Communications</i> , 2008 , 10, 839-843	5.1	33
61	Atomically thin two-dimensional materials for functional electrodes of electrochemical devices. <i>Ionics</i> , 2013 , 19, 825-865	2.7	30
60	In situ FTIR study of oxygen adsorption on nanostructured RuO ₂ thin-film electrode. <i>Ionics</i> , 2009 , 15, 507-512	2.7	29
59	Potentiometric DO detection in water by ceramic sensor based on sub-micron RuO ₂ sensing electrode. <i>Ionics</i> , 2009 , 15, 693-701	2.7	29
58	Synthesis and electrochemical properties of rGO-MoS ₂ heterostructures for highly sensitive nitrite detection. <i>Ionics</i> , 2018 , 24, 577-587	2.7	28
57	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
56	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
55	Ultra-thin sub-10 nm Ga ₂ O ₃ -WO ₃ heterostructures developed by atomic layer deposition for sensitive and selective C ₂ H ₅ OH detection on ppm level. <i>Sensors and Actuators B: Chemical</i> , 2019 , 287, 147-156	8.5	24
54	Interfacial engineering of two-dimensional nano-structured materials by atomic layer deposition. <i>Applied Surface Science</i> , 2017 , 392, 231-243	6.7	22
53	Enhanced electrical properties in sub-10-nm WO ₃ nanoflakes prepared via a two-step sol-gel-exfoliation method. <i>Nanoscale Research Letters</i> , 2014 , 9, 401	5	21
52	Post-synthetically modified MOF for the A ₃ -coupling reaction of aldehyde, amine, and alkyne. <i>Catalysis Science and Technology</i> , 2018 , 8, 4129-4140	5.5	20
51	Material characterisation and transistor function of quasi two dimensional sub-stoichiometric WO _{3-x} nanoflakes. <i>Materials Letters</i> , 2016 , 165, 173-177	3.3	19
50	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

49	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
48	MoO ₃ induces p-type surface conductivity by surface transfer doping in diamond. <i>Applied Surface Science</i> , 2020 , 509, 144890	6.7	18
47	Spray drying of zeolitic imidazolate frameworks: investigation of crystal formation and properties. <i>CrystEngComm</i> , 2018 , 20, 3601-3608	3.3	18
46	Carbon-doped MoS ₂ nanosheet photocatalysts for efficient degradation of methyl orange. <i>Ionics</i> , 2017 , 23, 1921-1925	2.7	17
45	Nanoscale All-Oxide-Heterostructured Bio-inspired Optoresponsive Nociceptor. <i>Nano-Micro Letters</i> , 2020 , 12, 83	19.5	16
44	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
43	Surface functionalization of wafer-scale two-dimensional WO ₃ nanofilms by NM electrodeposition (NM≡ Ag, Pt, Pd) for electrochemical H ₂ O ₂ reduction improvement. <i>Electrochimica Acta</i> , 2019 , 297, 417-426	6.7	16
42	Challenges and recent advancements of functionalization of two-dimensional nanostructured molybdenum trioxide and dichalcogenides. <i>Nanoscale</i> , 2019 , 11, 15709-15738	7.7	15
41	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
40	Functionalizing New Intercalation Chemistry for Sub-Nanometer-Scaled Interlayer Engineering of 2D Transition Metal Oxides and Chalcogenides. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701385	4.6	14
39	Liquid Exfoliation of Layered Transition Metal Dichalcogenides for Biological Applications. <i>Current Protocols in Chemical Biology</i> , 2016 , 8, 97-108	1.8	13
38	Investigation of Electrochemical Properties of La ₂ O ₃ /RuO ₂ Thin-Film Sensing Electrodes Used in Sensors for the Analysis of Complex Solutions. <i>International Journal of Applied Ceramic Technology</i> , 2011 , 8, 1192-1200	2	13
37	Ultrasensitive, Sustainable, and Selective Electrochemical Hydrazine Detection by ALD-Developed Two-Dimensional WO ₃ . <i>ChemElectroChem</i> , 2018 , 5, 266-272	4.3	13
36	Effect of Zinc Acetate Concentration on Optimization of Photocatalytic Activity of p-CoO/n-ZnO Heterostructures. <i>Nanoscale Research Letters</i> , 2018 , 13, 195	5	13
35	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
34	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
33	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
32	Enhancement of the acetone sensing capabilities to ppb detection level by Fe-doped three-dimensional SnO ₂ hierarchical microstructures fabricated via a hydrothermal method. <i>Journal of Materials Science</i> , 2017 , 52, 11554-11568	4.3	10

31	Wafer-Scale Fabrication of Sub-10 nm TiO-GaO n-p Heterojunctions with Efficient Photocatalytic Activity by Atomic Layer Deposition. <i>Nanoscale Research Letters</i> , 2019 , 14, 163	5	9
30	Heterostructured plasmonic memristors with tunable opto-synaptic functionalities. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2539-2549	7.1	9
29	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
28	Enhanced Charge Carrier Mobility in Two-Dimensional High Dielectric Molybdenum Oxide (Adv. Mater. 1/2013). <i>Advanced Materials</i> , 2013 , 25, 108-108	24	8
27	Atomic Force Microscopy Adhesion Mapping: Revealing Assembly Process in Inorganic Systems. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19984-19990	3.8	8
26	Mechanically exfoliated ultra-thin WO ₃ nanostructures: study of their enhanced electrical properties. <i>Ionics</i> , 2015 , 21, 775-784	2.7	7
25	Nanoscale Au-ZnO Heterostructure Developed by Atomic Layer Deposition Towards Amperometric HO Detection. <i>Nanoscale Research Letters</i> , 2020 , 15, 41	5	7
24	Pr ₆ O ₁₁ -Functionalized SnO ₂ Flower-Like Architectures for Highly Efficient, Stable, and Selective Acetone Detection. <i>IEEE Sensors Journal</i> , 2018 , 18, 933-940	4	6
23	Progress on Catalyst Development for Direct Synthesis of Dimethyl Carbonate from CO ₂ and Methanol. <i>Chemistry Africa</i> , 2019 , 2, 533-549	2.2	6
22	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
21	Atomic layer deposition 3-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
20	Development of quasi-two-dimensional Nb ₂ O ₅ nanoflakes with thickness-dependend electro-chemical properties. <i>Functional Materials Letters</i> , 2015 , 08, 1550007	1.2	5
19	Semiconductors: Two-Dimensional Molybdenum Trioxide and Dichalcogenides (Adv. Funct. Mater. 32/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 3946-3946	15.6	4
18	Fabrication of Ni(OH) ₂ &NiOOH Film/Ni Electrode and the Effect of NaOH Concentration on Its Glucose Detection. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B1732-B1741	3.9	4
17	In situ FTIR investigation of adsorption properties of sub-micron Cu ₂ O-doped RuO ₂ sensing electrode of planar potentiometric pH sensor. <i>Ionics</i> , 2012 , 18, 797-802	2.7	3
16	Mixed-potential Behavior of Nanostructured RuO ₂ Sensing Electrode of Water Quality Sensors in Strong Alkaline Solutions at a Temperature Range of 90-100°C 2009 ,		3
15	Ultrathin Two-Dimensional Semiconductors for Novel Electronic Applications		3
14	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

13	Self-Assembled Co ₃ O ₄ /GO Composites for Excellent Electrochemical Detection of Heavy-Metal Ions. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 083503	3.9	2
12	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
11	Artificial Synaptic Devices Based on Two-Dimensional Semiconductors 2020 , 229-274		1
10	2D Semiconductor Nanomaterials and Heterostructures: Controlled Synthesis and Functional Applications. <i>Nanoscale Research Letters</i> , 2021 , 16, 94	5	1
9	Ring-opening copolymerization of ϵ -caprolactone and δ -valerolactone by a titanium-based metal-organic framework. <i>New Journal of Chemistry</i> , 2021 , 45, 11313-11316	3.6	1
8	Nanostructure-induced performance degradation of WO ₃ /H ₂ O for energy conversion and storage devices. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 2845-2854	3	1
7	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
6	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
5	MoONPs/ZIF-8 composite material prepared via RCVD for photodegradation of dyes. <i>Data in Brief</i> , 2018 , 19, 2253-2259	1.2	0
4	Electrospinning Encapsulation of Pd Nanoparticles into β -Fe ₂ O ₃ Nanofibers Windows Enhanced Acetone Sensing. <i>IEEE Sensors Journal</i> , 2021 , 21, 15944-15951	4	0
3	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
2	Metal Embedded Porous Carbon for Efficient CO ₂ Cycloaddition under Mild Conditions. <i>Catalysts</i> , 2022 , 12, 427	4	0
1	Sensorimotor Devices Based on Two-Dimensional Semiconductor Materials 2020 , 275-307		