

Huiyu Yuan

List of Publications by Year in descending order

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51
papers

2,157
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430754

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46
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docs citations

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times ranked

3109
citing authors

#	ARTICLE	IF	CITATIONS
1	Multilayered PdSe ₂ /Perovskite Schottky Junction for Fast, Self-Powered, Polarization-Sensitive, Broadband Photodetectors, and Image Sensor Application. <i>Advanced Science</i> , 2019, 6, 1901134.	5.6	308
2	Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1806878.	7.8	286
3	In Situ Fabrication of 2D WS ₂ /Si Type-II Heterojunction for Self-Powered Broadband Photodetector with Response up to Mid-Infrared. <i>ACS Photonics</i> , 2019, 6, 565-572.	3.2	221
4	Two-Dimensional Metal Oxide and Metal Hydroxide Nanosheets: Synthesis, Controlled Assembly and Applications in Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2016, 6, 1600355.	10.2	189
5	In-situ fabrication of PtSe ₂ /GaN heterojunction for self-powered deep ultraviolet photodetector with ultrahigh current on/off ratio and detectivity. <i>Nano Research</i> , 2019, 12, 183-189.	5.8	189
6	Ultrafast and sensitive photodetector based on a PtSe ₂ /silicon nanowire array heterojunction with a multiband spectral response from 200 to 1550 nm. <i>NPG Asia Materials</i> , 2018, 10, 352-362.	3.8	187
7	Multifunctional Sensor Based on Porous Carbon Derived from Metal-Organic Frameworks for Real Time Health Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3986-3993.	4.0	134
8	Synthesis of KCa ₂ Nb ₃ O ₁₀ Crystals with Varying Grain Sizes and Their Nanosheet Monolayer Films As Seed Layers for PiezoMEMS Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27473-27478.	4.0	45
9	Improved Langmuir-Blodgett Titanate Films via in Situ Exfoliation Study and Optimization of Deposition Parameters. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8567-8574.	4.0	44
10	Highly Oriented Growth of Piezoelectric Thin Films on Silicon Using Two-Dimensional Nanosheets as Growth Template Layer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31120-31127.	4.0	41
11	Laser Q-switching with PtS ₂ microflakes saturable absorber. <i>Optics Express</i> , 2018, 26, 13055.	1.7	41
12	The swelling transition of lepidocrocite-type protonated layered titanates into anatase under hydrothermal treatment. <i>Scientific Reports</i> , 2014, 4, 4584.	1.6	40
13	Additive manufacturing of SiO ₂ -Al ₂ O ₃ refractory products via Direct Ink Writing. <i>Ceramics International</i> , 2020, 46, 27254-27261.	2.3	36
14	The Rapid Exfoliation and Subsequent Restacking of Layered Titanates Driven by an Acid-Base Reaction. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9239-9243.	7.2	35
15	Enhanced Photocatalytic Activity of WS ₂ Film by Laser Drilling to Produce Porous WS ₂ /WO ₃ Heterostructure. <i>Scientific Reports</i> , 2017, 7, 3125.	1.6	31
16	Fabrication of 2D PdSe ₂ /3D CdTe Mixed-Dimensional van der Waals Heterojunction for Broadband Infrared Detection. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41791-41801.	4.0	30
17	Controlling Piezoelectric Responses in Pb(Zr _{0.52} Ti _{0.48})O ₃ Films through Deposition Conditions and Nanosheet Buffer Layers on Glass. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35947-35957.	4.0	28
18	Epitaxial ferroelectric oxides on silicon with perspectives for future device applications. <i>APL Materials</i> , 2021, 9, .	2.2	23

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19	In ₂ Se ₃ nanosheets with broadband saturable absorption used for near-infrared femtosecond laser mode locking. <i>Nanotechnology</i> , 2019, 30, 465704.	1.3	19
20	SiAlON-Al ₂ O ₃ ceramics as potential biomaterials. <i>Ceramics International</i> , 2019, 45, 16809-16813.	2.3	17
21	Hybrid <i>n</i> -Alkylamine Intercalated Layered Titanates for Solid Lubrication. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28926-28934.	4.0	16
22	Self-Assembly of Metal Oxide Nanosheets at Liquid-Air Interfaces in Colloidal Solutions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25411-25417.	1.5	15
23	Feasibility of SiAlON-Si ₃ N ₄ composite ceramic as a potential bone repairing material. <i>Ceramics International</i> , 2020, 46, 1760-1765.	2.3	14
24	Photodetectors: Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications (<i>Adv. Funct. Mater.</i> 1/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970005.	7.8	13
25	Micro-structured lepidocrocite-type H _{1.07} Ti _{1.73} O ₄ as anode for lithium-ion batteries with an ultrahigh rate and long-term cycling performance. <i>Rare Metals</i> , 2021, 40, 1391-1401.	3.6	12
26	Modulating the External Facets of Functional Nanocrystals Enabled by Two-Dimensional Oxide Crystal Templates. <i>ACS Catalysis</i> , 2017, 7, 6858-6863.	5.5	11
27	Ultra-high adsorption of cationic methylene blue on two dimensional titanate nanosheets. <i>RSC Advances</i> , 2019, 9, 5891-5894.	1.7	11
28	One step synthesis of Fe _{4.4} Ni _{17.6} Se ₁₆ coupled NiSe foam as self-supported, highly efficient and durable oxygen evolution electrode. <i>Materials Today Chemistry</i> , 2018, 9, 133-139.	1.7	10
29	Investigation the sodium storage kinetics of H _{1.07} Ti _{1.73} O ₄ @rGO composites for high rate and long cycle performance. <i>Journal of the American Ceramic Society</i> , 2021, 104, 1526-1538.	1.9	10
30	Flux-Assisted Synthesis of Prism-like Octahedral Ta ₃ N ₅ Single Crystals with Controllable Facets for Promoted Photocatalytic H ₂ Evolution. <i>Solar Rrl</i> , 2021, 5, 2000574.	3.1	10
31	Fabrication and properties of Si ₂ N ₂ O-Si ₃ N ₄ ceramics via direct ink writing and low-temperature sintering. <i>Ceramics International</i> , 2022, 48, 32-41.	2.3	10
32	Fabrication of luminescent PtS ₂ quantum dots. <i>Journal of Luminescence</i> , 2019, 211, 227-232.	1.5	9
33	Face-to-Face Assembly of Ag Nanoplates on Filter Papers for Pesticide Detection by Surface-Enhanced Raman Spectroscopy. <i>Nanomaterials</i> , 2022, 12, 1398.	1.9	9
34	Enhancement of photo-electrochemical reactions in MAPbI ₃ /Au. <i>Materials Today Energy</i> , 2018, 9, 303-310.	2.5	7
35	Enhanced thermal stability of the lepidocrocite-type titanates by intercalation of large alkaline ions. <i>Journal of the American Ceramic Society</i> , 2021, 104, 1501-1512.	1.9	7
36	Effect of ZrO ₂ on the physicochemical properties and biological properties of β -SiAlON-ZrO ₂ composite ceramics. <i>Ceramics International</i> , 2021, 47, 1244-1252.	2.3	7

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37	Effects of Z-value on physicochemical and biological properties of $\hat{\Gamma}^2$ -SiAlONs ceramics. <i>Ceramics International</i> , 2021, 47, 34810-34819.	2.3	6
38	Suppressing photocarrier recombination in anatase TiO ₂ nanoplates via thickness optimization for enhanced photocatalytical H ₂ generation. <i>Applied Surface Science</i> , 2021, 566, 150698.	3.1	6
39	Shear thinning molecular dynamics simulation of binder solution for 3D printing alumina. <i>Ceramics International</i> , 2022, 48, 27302-27311.	2.3	5
40	Rational design of Fe-doped K _{0.8} Ti _{1.73} Li _{0.27} O ₄ @rGO as a high-rate and long-cycle-life anode for lithium-ion batteries. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 234002.	1.3	5
41	Thermal insulation characteristics of roll forming alumina ball material. <i>Ceramics International</i> , 2021, 47, 16491-16499.	2.3	4
42	Correction to Multifunctional Sensor Based on Porous Carbon Derived from Metal-Organic Frameworks for Real Time Health Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10599-10599.	4.0	3
43	Dynamics of Crack Healing and its Molecular Dynamics Simulation of Al ₂ O ₃ -MgAlON Composite. <i>Advanced Materials Research</i> , 2010, 105-106, 137-141.	0.3	2
44	TiN-based organic-inorganic composite films with dual functions of solar control and low-emission for energy-saving coatings. <i>Materials Research Express</i> , 2020, 7, 065504.	0.8	2
45	Following the Kinetics of Barium Titanate Nanocrystal Formation in Benzyl Alcohol Under Near-Ambient Conditions. <i>Small</i> , 2018, 14, e1802003.	5.2	1
46	Growing a LaAlO ₃ /SrTiO ₃ heterostructure on Ca ₂ Nb ₃ O ₁₀ nanosheets. <i>Scientific Reports</i> , 2019, 9, 17617.	1.6	1
47	Improved sintering performance of $\hat{\Gamma}^2$ -SiAlON-Si ₃ N ₄ and its osteogenic differentiation ability by adding $\hat{\Gamma}^2$ -SiAlON. <i>Journal of Biomaterials Applications</i> , 2022, , 088532822110543.	1.2	1
48	Electronic Binding Energy Changes of Elements in Al ₂ O ₃ -MgAlON Composite during the Crack Healing Process. <i>Advanced Materials Research</i> , 2011, 287-290, 205-208.	0.3	0
49	Synthesis of layered-perovskite KCa ₂ N _n -3NbnO _{3n+1} with different layer thickness. <i>Materials Letters</i> , 2020, 281, 128635.	1.3	0
50	Two-dimensional oxide based pressure sensors with high sensitivity. <i>Nano Select</i> , 0, , .	1.9	0
51	Biological, physical, and chemical properties of wallastonite-added $\hat{\Gamma}^2$ -SiAlON ceramics. <i>Ceramics International</i> , 2022, , .	2.3	0