

Tao Yang

List of Publications by Year in descending order

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54
papers

1,825
citations

201674

27
h-index

265206

42
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55
all docs

55
docs citations

55
times ranked

2113
citing authors

#	ARTICLE	IF	CITATIONS
1	Mild fabrication of SiC/C nanosheets with prolonged cycling stability as supercapacitor. Journal of Materials Science and Technology, 2022, 110, 178-186.	10.7	39
2	Ti ₃ C ₂ T _x (MXene)/Pt nanoparticle electrode for the accurate detection of DA coexisting with AA and UA. Dalton Transactions, 2022, 51, 4549-4559.	3.3	33
3	Semi-empirical estimation for enhancing negative thermal expansion in PbTiO ₃ -based perovskites. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 783-786.	4.9	2
4	Ultra-Stable and Durable Piezoelectric Nanogenerator with All-Weather Service Capability Based on NADoped 4H-SiC Nanohole Arrays. Nano-Micro Letters, 2022, 14, 30.	27.0	57
5	The oxidation and thermal stability of two-dimensional transition metal carbides and/or carbonitrides (MXenes) and the improvement based on their surface state. Inorganic Chemistry Frontiers, 2021, 8, 2164-2182.	6.0	56
6	Piezoelectric Nanogenerator Based on In Situ Growth All-inorganic CsPbBr ₃ Perovskite Nanocrystals in PVDF Fibers with Long-Term Stability. Advanced Functional Materials, 2021, 31, 2011073.	14.9	95
7	Preparation of Zr ⁴⁺ doped calcium hexaaluminate with improved slag penetration resistance. Journal of the American Ceramic Society, 2021, 104, 4854-4866.	3.8	61
8	Piezoelectric nanogenerators with high performance against harsh conditions based on tunable N doped 4H-SiC nanowire arrays. Nano Energy, 2021, 83, 105826.	16.0	56
9	Tunable fabrication of single-crystalline CsPbI ₃ nanobelts and their application as photodetectors. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 1030-1037.	4.9	26
10	Effect of temperature on the initial reaction behavior of MAB phases (MoAlB powders) at 700–1000 °C in air. Ceramics International, 2021, 47, 20700-20705.	4.8	19
11	In situ reduced MXene/AuNPs composite toward enhanced charging/discharging and specific capacitance. Journal of Advanced Ceramics, 2021, 10, 1061-1071.	17.4	78
12	New approach to evaluate the influence of compressive stress on the oxidation of non-oxide ceramics. Ceramics International, 2021, 48, 2317-2317.	4.8	7
13	A Projective Noise Reduction Algorithm Based on Laplacian Smoothing. , 2021, , .		0
14	Construction of layered h-BN/TiO ₂ hetero-structure and probing of the synergetic photocatalytic effect. Science China Materials, 2020, 63, 276-287.	6.3	39
15	A wide range photoluminescence intensity-based temperature sensor developed with BN quantum dots and the photoluminescence mechanism. Sensors and Actuators B: Chemical, 2020, 304, 127353.	7.8	16
16	Electrostatic interaction assisted synthesis of a CdS/BCN heterostructure with enhanced photocatalytic effects. Journal of Materials Chemistry C, 2020, 8, 1803-1810.	5.5	48
17	All-inorganic dual-phase halide perovskite nanorings. Nano Research, 2020, 13, 2994-3000.	10.4	18
18	A Manifold-Based Dimension Reduction Algorithm Framework for Noisy Data Using Graph Sampling and Spectral Graph. Complexity, 2020, 2020, 1-18.	1.6	0

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19	Strong Covalent Bonding for Enhanced Negative Thermal Expansion in (1-x)TjETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (1-x) 20445-20449.	3.1	5
20	Large nonlinear optical effect in tungsten bronze structures via Li/Na cross-substitutions. Chemical Communications, 2020, 56, 8384-8387.	4.1	3
21	Evidence of the enhanced negative thermal expansion in (1-x)PbTiO ₃ -xBi(Zn ₂ /3Ta ₁ /3)O ₃ . Inorganic Chemistry Frontiers, 2020, 7, 1284-1288.	6.0	6
22	Supercapacitor electrode based on few-layer h-BNNSs/rGO composite for wide-temperature-range operation with robust stable cycling performance. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 220-231.	4.9	24
23	Electrochemical detection mechanism of dopamine and uric acid on titanium nitride-reduced graphene oxide composite with and without ascorbic acid. Sensors and Actuators B: Chemical, 2019, 298, 126872.	7.8	92
24	Individual and Simultaneous Voltammetric Determination of Cd(II), Cu(II) and Pb(II) Applying Amino Functionalized Fe ₃ O ₄ @Carbon Microspheres Modified Electrode. Electroanalysis, 2019, 31, 1448-1457.	2.9	24
25	Tunable thermal expansion and high hardness of (0.9-x)PbTiO ₃ -xCaTiO ₃ -0.1Bi(Zn ₂ /3Ta ₁ /3)O ₃ . Inorganic Chemistry Frontiers, 2019, 6, 1068-1072.		
26	Simultaneous determination of Cd(II) and Pb(II) using electrode modified by FeAl ₂ O ₄ -AlOOH-reduced graphene oxide hybrids. Ionics, 2019, 25, 2351-2360.	2.4	9
27	High-performance SiC Nanobelt Photodetectors with Long-term Stability Against 300 °C up to 180 Days. Advanced Functional Materials, 2019, 29, 1806250.	14.9	54
28	Superior Photodetectors Based on All-Inorganic Perovskite CsPbI ₃ Nanorods with Ultrafast Response and High Stability. ACS Nano, 2018, 12, 1611-1617.	14.6	210
29	Reply to "Comment on "Superior Photodetectors Based on All-Inorganic Perovskite CsPbI ₃ Nanorods with Ultrafast Response and High Stability". ACS Nano, 2018, 12, 10571-10571.	14.6	2
30	Photodetectors with ultra-high detectivity based on stabilized all-inorganic perovskite CsPb _{0.922} Sn _{0.078} I ₃ nanobelts. Journal of Materials Chemistry C, 2018, 6, 6287-6296.	5.5	47
31	Tunable preparation of chrysanthemum-like titanium nitride as flexible electrode materials for ultrafast-charging/discharging and excellent stable supercapacitors. Journal of Power Sources, 2018, 396, 319-326.	7.8	54
32	Synergizing the multiple plasmon resonance coupling and quantum effects to obtain enhanced SERS and PEC performance simultaneously on a noble metal-semiconductor substrate. Nanoscale, 2017, 9, 2376-2384.	5.6	33
33	The effective determination of Cd(II) and Pb(II) simultaneously based on an aluminum silicon carbide-reduced graphene oxide nanocomposite electrode. Analyst, The, 2017, 142, 2741-2747.	3.5	28
34	Improved microwave absorption performance of modified SiC in the 18 GHz frequency range. CrystEngComm, 2017, 19, 519-527.	2.6	63
35	Cadmium sulfide with tunable morphologies: Preparation and visible-light driven photocatalytic performance. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 93, 116-123.	2.7	45
36	TiN @NiCo ₂ O ₄ coaxial nanowires as supercapacitor electrode materials with improved electrochemical and wide-temperature performance. Journal of Alloys and Compounds, 2017, 692, 605-613.	5.5	37

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37	Pt-Co Alloys-Loaded Cubic SiC Electrode with Improved Photoelectrocatalysis Property. <i>Materials</i> , 2017, 10, 955.	2.9	8
38	Enhancing photoluminescence properties of SiC/SiO ₂ coaxial nanocables by making oxygen vacancies. <i>Dalton Transactions</i> , 2016, 45, 13503-13508.	3.3	32
39	Improvement in surface-enhanced Raman spectroscopy from cubic SiC semiconductor nanowhiskers by adjustment of energy levels. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27572-27576.	2.8	9
40	Bare and boron-doped cubic silicon carbide nanowires for electrochemical detection of nitrite sensitively. <i>Scientific Reports</i> , 2016, 6, 24872.	3.3	34
41	Single crystalline 3C-SiC whiskers used for electrochemical detection of nitrite under neutral condition. <i>Ionics</i> , 2016, 22, 1493-1500.	2.4	34
42	Preparation of hexagonal BN whiskers synthesized at low temperature and their application in fabricating an electrochemical nitrite sensor. <i>RSC Advances</i> , 2016, 6, 27767-27774.	3.6	31
43	Porous hexagonal boron nitride whiskers fabricated at low temperature for effective removal of organic pollutants from water. <i>Ceramics International</i> , 2016, 42, 8754-8762.	4.8	53
44	Fabrication of Ordered Mullite Nanowhisker Array with Surface Enhanced Raman Scattering Effect. <i>Scientific Reports</i> , 2015, 5, 9690.	3.3	10
45	Template free synthesis of highly ordered mullite nanowhiskers with exceptional photoluminescence. <i>Ceramics International</i> , 2015, 41, 9560-9566.	4.8	13
46	B-doped 3C-SiC nanowires with a finned microstructure for efficient visible light-driven photocatalytic hydrogen production. <i>Nanoscale</i> , 2015, 7, 8955-8961.	5.6	80
47	Preparation of TiO _x /N _y /TiN composites for photocatalytic hydrogen evolution under visible light. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28782-28788.	2.8	47
48	Molten salt synthesis of mullite nanowhiskers using different silica sources. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 884-891.	4.9	13
49	Recovery Behavior of Separating Britholite (Ca ₃ Ce ₂ [(Si,P)O ₄] ₃ F) Phase from Rare-Earth-rich Slag by Centrifugal Casting. <i>High Temperature Materials and Processes</i> , 2015, 34, .	1.4	4
50	Synthesis of titanium nitride nanopowder at low temperature from the combustion synthesized precursor and the thermal stability. <i>Journal of Alloys and Compounds</i> , 2014, 615, 838-842.	5.5	17
51	A Facile Synthesis of a Three-Dimensional Flexible 3C-SiC Sponge and Its Wettability. <i>Crystal Growth and Design</i> , 2014, 14, 4624-4630.	3.0	48
52	A novel immune image template set for fuzzy image segmentation and its application research. , 2011, , .		1
53	Fabrication of Semiconductor with Modified Microstructure for Efficient Photocatalytic Hydrogen Evolution Under Visible Light. , 0, , .		0
54	Manifold fitting algorithm of noisy manifold data based on variable-scale spectral graph. <i>Soft Computing</i> , 0, , 1.	3.6	1