Jian-hong Peng

List of Publications by Year
in descending order

65	1,662	304368	315357
papers	citations	22 h-index	38 g-index

65	65	65	2194
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrothermal synthesis and magnetic properties of gadolinium-doped CoFe2O4 nanoparticles. Journal of Magnetism and Magnetic Materials, 2011, 323, 133-137.	1.0	195
2	Direct coherent multi-ink printing of fabric supercapacitors. Science Advances, 2021, 7, .	4.7	95
3	A Plasmonic Agâ€“AgBr/Bi₂O₂CO₃ Composite Photocatalyst with Enhanced Visible-Light Photocatalytic Activity. Industrial & Engineering Chemistry Research, 2014, 53, 13718-13727.	1.8	75
4	Rapid adsorption and photocatalytic activity for Rhodamine B and Cr(<scp>vi</scp>) by ultrathin BiOI nanosheets with highly exposed {001} facets. New Journal of Chemistry, 2015, 39, 1874-1882.	1.4	74
5	3D frame-like architecture of N-C-incorporated mixed metal phosphide boosting ultrahigh energy density pouch-type supercapacitors. Nano Energy, 2022, 91, 106630.	8.2	74
6	Enhanced photocatalytic activity of Gd-doped porous Î²-Bi2O3 photocatalysts under visible light irradiation. Applied Surface Science, 2015, 351, 260-269.	3.1	56
7	La-Doped ZnWO₄ nanorods with enhanced photocatalytic activity for NO removal: effects of La doping and oxygen vacancies. Inorganic Chemistry Frontiers, 2020, 7, 356-368.	3.0	53
8	Electrical, magnetic, and direct and converse magnetoelectric properties of (1â^' x)Pb(Zr 0.52 Ti 0.48)O 3 â^'(x)CoFe 2 O 4 (PZTâ€“CFO) magnetoelectric composites. Journal of Magnetism and Magnetic Materials, 2015, 378, 298-305.	1.0	51
9	Novel coaxial fiber-shaped sensing system integrated with an asymmetric supercapacitor and a humidity sensor. Energy Storage Materials, 2018, 15, 315-323.	9.5	51
10	Heterogeneous structured MoSe₂â€“MoO₃ quantum dots with enhanced sodium/potassium storage. Journal of Materials Chemistry A, 2020, 8, 23395-23403.	5.2	48
11	Adsorption of CO, NO, and NH3 on ZnO monolayer decorated with noble metal (Ag, Au). Applied Surface Science, 2020, 508, 145202.	3.1	46
12	Printable Ink Design towards Customizable Miniaturized Energy Storage Devices. , 2020, 2, 1041-1056.		45
13	Na2EDTA-assisted hydrothermal synthesis and luminescent properties of YVO4:Eu3+ with different morphologies in a wide pH range. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 156, 42-47.	1.7	39
14	Improving the mechanical properties of tantalum carbide particle-reinforced iron-based composite by varying the TaC contents. Journal of Alloys and Compounds, 2017, 726, 896-905.	2.8	34
15	Building sandwich-like carbon coated Si@CNTs composites as high-performance anode materials for lithium-ion batteries. Electrochimica Acta, 2020, 364, 137278.	2.6	33
16	Rapid microwave-assisted solvothermal synthesis and visible-light-induced photocatalytic activity of Er3+-doped BiOI nanosheets. Advanced Powder Technology, 2018, 29, 1158-1166.	2.0	31
17	Synergetic effects of surface adsorption and photodegradation on removal of organic pollutants by Er3+-doped BiOI ultrathin nanosheets with exposed {001} facets. Journal of Materials Science, 2016, 51, 2057-2071.	1.7	30
18	Fabricating Mn3O4/Î²-Bi2O3 heterojunction microspheres with enhanced photocatalytic activity for organic pollutants degradation and NO removal. Journal of Alloys and Compounds, 2021, 854, 157223.	2.8	30

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19	Temperature effect on phase transition and morphological transformation of BiOI microspheres to Bi5O7I microstructures. Materials Letters, 2016, 169, 122-125.	1.3	28
20	The low temperature electrochemical performances of LiFePO 4 /C/graphene nanofiber with 3D-bridge network structure. Electrochimica Acta, 2016, 217, 62-72.	2.6	27
21	Bi0 nanoparticle loaded on Bi3+-doped ZnWO4 nanorods with oxygen vacancies for enhanced photocatalytic NO removal. Journal of Alloys and Compounds, 2020, 818, 152837.	2.8	25
22	A facile route to synthesize luminescent YVO4:Eu3+ porous nanoplates. Journal of Non-Crystalline Solids, 2009, 355, 903-907.	1.5	24
23	Recent Advances of Bimetallic Sulfide Anodes for Sodium Ion Batteries. Frontiers in Chemistry, 2020, 8, 353.	1.8	24
24	Comparative study on microstructure and electrical properties of (K0.5Na0.5)NbO3 lead-free ceramics prepared via two different sintering methods. Journal of Materials Science, 2017, 52, 2934-2943.	1.7	23
25	Nonionic surfactant-assisted hydrothermal synthesis of YVO4:Eu3+ powders in a wide pH range and their luminescent properties. Materials Chemistry and Physics, 2011, 125, 82-86.	2.0	22
26	Constructing 1D/2D BiOI/ZnWO₄pâ€n heterojunction photocatalyst with enhanced photocatalytic removal of NO. Journal of Chemical Technology and Biotechnology, 2020, 95, 1705-1716.	1.6	21
27	Additive Manufacturing of Two-Dimensional Conductive Metalâ€“Organic Framework with Multidimensional Hybrid Architectures for High-Performance Energy Storage. Nano Letters, 2022, 22, 1198-1206.	4.5	21
28	One-step molten-salt method fabricated Bi2Ti2O7/Bi4Ti3O12 composites with enhanced photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2017, 28, 2172-2182.	1.1	20
29	Constructing the Pd/PdO/Î²â€Bi₂O₃ microspheres with enhanced photocatalytic activity for Bisphenol A degradation and NO removal. Journal of Chemical Technology and Biotechnology, 2020, 95, 862-874.	1.6	20
30	Band structures and optical properties of Ag and Al co-doped ZnO by experimental and theoretic calculation. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 114, 113602.	1.3	19
31	The effects of synthesis parameters on the formation of PbI2 particles under DTAB-assisted hydrothermal process. Materials Chemistry and Physics, 2011, 131, 64-71.	2.0	18
32	Symmetric relationships between direct and converse magnetoelectric effects in laminate composites. Composite Structures, 2016, 155, 107-117.	3.1	18
33	A comparable study of Fe//MCs (M = Ti, V) interfaces by first-principles method: The chemical bonding, work of adhesion and electronic structures. Journal of Physics and Chemistry of Solids, 2020, 138, 109292.	1.9	18
34	Investigation on tunable electronic properties of semiconducting graphene induced by boron and sulfur doping. Applied Surface Science, 2021, 542, 148763.	3.1	18
35	Effect of noble metal atoms on adsorption and electronic properties of graphene toward toxic gas. Computational and Theoretical Chemistry, 2021, 1196, 113115.	1.1	18
36	First Principles Investigation of Binary Chromium Carbides Cr7C3, Cr3C2 and Cr23C6: Electronic Structures, Mechanical Properties and Thermodynamic Properties under Pressure. Materials, 2022, 15, 558.	1.3	18

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37	Anisotropic elastic, thermal properties and electronic structures of M2AlB2 (M=Fe, Cr, and Mn) layer structure ceramics. Ceramics International, 2021, 47, 1421-1428.	2.3	17
38	Simulated Sunlight-Driven Degradation of Rhodamine B by Porous Peanut-Like TiO2/BiVO4 Composite. Journal of Cluster Science, 2013, 24, 771-785.	1.7	16
39	Fiber-Shaped Electrochemical Capacitors Based on Plasma-Engraved Graphene Fibers with Oxygen Vacancies for Alternating Current Line Filtering Performance. ACS Applied Energy Materials, 2019, 2, 993-999.	2.5	16
40	Surfactant-free hydrothermal synthesis ofÂsubmicronÂBiFeO3Âpowders. Applied Physics A: Materials Science and Processing, 2011, 103, 511-516.	1.1	15
41	Enhanced low temperature electrochemical properties of Li3V2(PO4)3/C modified by a mixed conductive network of Ti3SiC2 and C. Ceramics International, 2017, 43, 2791-2800.	2.3	15
42	Self-assembly of SnS2 submicron-sized flakes to form microspheres under template-free hydrothermal conditions. Journal of Alloys and Compounds, 2010, 490, L20-L23.	2.8	13
43	Facile Synthesis of Flockâ€Like V₂O₃/C with Improved Electrochemical Performance as an Anode Material for Liâ€Ion Batteries. Energy Technology, 2020, 8, 1900986.	1.8	11
44	Ni modified ultrafine MoxC (xÂ=Â1, 2) wrapped by nitrogen-doped carbon for efficient hydrogen evolution reaction in acid and alkaline electrolytes. International Journal of Hydrogen Energy, 2020, 45, 28285-28293.	3.8	11
45	Interface characterization and mechanical properties of Mo-added chromium carbide-nickel composite. Ceramics International, 2020, 46, 27071-27079.	2.3	10
46	3D printing coaxial fiber electrodes towards boosting ultralong cycle life of fibrous supercapacitors. Electrochimica Acta, 2021, 380, 138220.	2.6	10
47	First-principles calculation of the adhesion work, fracture toughness and tensile behavior of the Fe/MCs (MÂ=ÂNb and Ta) interfaces by two different optimization methods. Chemical Physics, 2021, 547, 111193.	0.9	10
48	Firstâ€“principle studies on the electronic structural, thermodynamics and elastic properties of Mg₁₇Al₁₂ intermediate phase under high pressure. Materials Research Express, 2019, 6, 0865e1.	0.8	9
49	Enhanced electrochemical performance of a promising anode material FeVO4 by tungsten doping. Ceramics International, 2020, 46, 21360-21366.	2.3	9
50	Enhanced adsorption properties of ZnO/GaN heterojunction for CO and H2S under external electric field. Computational and Theoretical Chemistry, 2021, 1206, 113495.	1.1	9
51	First-principles investigation on electrical and adsorption properties of the ZnO/Silicene heterostructures: The role of Ag and N co-doping and external electric field. FlatChem, 2022, 33, 100369.	2.8	9
52	Pd decorated TiO2 nanotube array Schottky barrier diodes for efficient hydrogen sensing application. Journal of Applied Physics, 2020, 128, .	1.1	7
53	Effect of Fe2B boride orientation on abrasion wear resistance of Fe-B cast alloy. China Foundry, 2017, 14, 272-278.	0.5	6
54	Synthesis of Li4Ti5O12-reduced graphene oxide composite and its application for hybrid supercapacitors. Ionics, 2016, 22, 1829-1836.	1.2	5

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55	Construction of a 2D/2D heterojunction via integrating MoS₂ on Co-doped g-C₃N₄ to improve photocatalytic hydrogen evolution under visible light irradiation. New Journal of Chemistry, 2021, 45, 13175-13184.	1.4	5
56	Origin of Large Phase Shift and Magnetoelectric Resonance in Magnetoelectric Laminate Composite. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	4
57	The Electronic Structural and Elastic Properties of Mg23Al30 Intermediate Phase under High Pressure. Crystals, 2020, 10, 642.	1.0	4
58	Hierarchical porous LixV2O4/C anode assembled with nanoflake for high-performance lithium-ion battery. Journal of Materials Science, 2020, 55, 5522-5533.	1.7	4
59	A study on the microstructures and threeâ€“body abrasive wear behaviors of Feâ€“B alloy under different Fe₂B boride orientation. Industrial Lubrication and Tribology, 2017, 69, 782-787.	0.6	2
60	In situ fabricated metal-carbide with coreâ€“shell structure for high impact-toughness iron-matrix composite. Materials Science and Technology, 2019, 35, 1727-1734.	0.8	2
61	Structural, interfacial, magnetic and dielectric properties of (1â^'x)(Mg 0.95 Zn 0.05) 2 (Ti 0.8 Sn 0.2)O 4 @xNi 0.4 Zn 0.6 Fe 2 O 4 composite at high frequency. Ceramics International, 2017, 43, 5427-5433.	2.3	1
62	Synthesis of Nanocrystalline TiO₂ by NH₄F-Assisted Low Temperature Hydrolysis Method and its Photocatalytic Ability for Rhodamine B. Advanced Materials Research, 0, 781-784, 152-156.	0.3	0
63	Study on the (Fe,Cr)₇C₃ Particles Reinforced Iron-Based Composite Coating. Materials Science Forum, 2014, 809-810, 569-572.	0.3	0
64	Electrochemical properties of Li3V2(PO4)3/C cathode materials synthesized via ethylene glycol-assisted solvothermal method. Ionics, 2018, 24, 1277-1283.	1.2	0
65	Formation of FeVO4/ZnO nâ€“n heterojunction with enhanced sensing properties for ethanol. Applied Nanoscience (Switzerland), 0, , 1.	1.6	0