

Kai Pan

List of Publications by Year in descending order

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56
papers

3,324
citations

147801

31
h-index

144013

57
g-index

58
all docs

58
docs citations

58
times ranked

4845
citing authors

#	ARTICLE	IF	CITATIONS
1	Well-Ordered Large-Pore Mesoporous Anatase TiO ₂ with Remarkably High Thermal Stability and Improved Crystallinity: Preparation, Characterization, and Photocatalytic Performance. <i>Advanced Functional Materials</i> , 2011, 21, 1922-1930.	14.9	431
2	Facile solvothermal synthesis of hierarchical flower-like Bi ₂ MoO ₆ hollow spheres as high performance visible-light driven photocatalysts. <i>Journal of Materials Chemistry</i> , 2011, 21, 887-892.	6.7	427
3	3D hierarchical flower-like TiO ₂ nanostructure: morphology control and its photocatalytic property. <i>CrystEngComm</i> , 2011, 13, 2994.	2.6	237
4	Facile preparation of porous NiTiO ₃ nanorods with enhanced visible-light-driven photocatalytic performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 16471.	6.7	176
5	Facile Synthesis of High-Crystallinity Graphitic Carbon/Fe ₃ C Nanocomposites As Counter Electrodes for High-Efficiency Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3663-3670.	8.0	127
6	Hierarchical flake-like Bi ₂ MoO ₆ /TiO ₂ bilayer films for visible-light-induced self-cleaning applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6961.	10.3	102
7	Composites of small Ag clusters confined in the channels of well-ordered mesoporous anatase TiO ₂ and their excellent solar-light-driven photocatalytic performance. <i>Nano Research</i> , 2014, 7, 731-742.	10.4	102
8	In situ synthesis of a NiS/Ni ₃ S ₂ nanorod composite array on Ni foil as a FTO-free counter electrode for dye-sensitized solar cells. <i>Nanoscale</i> , 2015, 7, 1623-1626.	5.6	94
9	Controlled synthesis of thorny anatase TiO ₂ tubes for construction of Ag@AgBr/TiO ₂ composites as highly efficient simulated solar-light photocatalyst. <i>Journal of Materials Chemistry</i> , 2012, 22, 2081-2088.	6.7	84
10	Bifunctional Ag/Fe/N/C Catalysts for Enhancing Oxygen Reduction via Cathodic Biofilm Inhibition in Microbial Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6992-7002.	8.0	78
11	Hollow Octahedral Cu ₂ S/CdS/Bi ₂ S ₃ p-n Type Tandem Heterojunctions for Efficient Photothermal Effect and Robust Visible-Light-Driven Photocatalytic Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40328-40338.	8.0	77
12	Black N/TiO ₂ Nanoplates with a Flower-Like Hierarchical Architecture for Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2016, 9, 2841-2848.	6.8	73
13	Assembly of β -Cyclodextrins Acting as Molecular Bricks onto Multiwall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 951-957.	3.1	72
14	A Floating Porous Crystalline TiO ₂ Ceramic with Enhanced Photocatalytic Performance for Wastewater Decontamination. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2411-2417.	2.0	59
15	Highly crystalline graphene/carbon black composite counter electrodes with controllable content: Synthesis, characterization and application in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 96, 155-163.	5.2	59
16	Hierarchical Composite of Ag/AgBr Nanoparticles Supported on Bi ₂ MoO ₆ Hollow Spheres for Enhanced Visible-Light Photocatalytic Performance. <i>ChemPlusChem</i> , 2013, 78, 117-123.	2.8	58
17	Flower-Like Nickel Phosphide Microballs Assembled by Nanoplates with Exposed High-Energy (001) Facets: Efficient Electrocatalyst for the Hydrogen Evolution Reaction. <i>ChemSusChem</i> , 2017, 10, 4899-4908.	6.8	55
18	A novel Fe ₃ C/graphitic carbon composite with electromagnetic wave absorption properties in the C-band. <i>RSC Advances</i> , 2015, 5, 60135-60140.	3.6	45

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19	Surface-defect-rich mesoporous NH ₂ -MIL-125 (Ti)@Bi ₂ MoO ₆ core-shell heterojunction with improved charge separation and enhanced visible-light-driven photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 324-334.	9.4	44
20	Carbon nanotubes <i>in situ</i> embedded with NiS nanocrystals outperform Pt in dye-sensitized solar cells: interface improved activity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10405-10411.	10.3	40
21	Surface Plasmon Resonance-Enhanced Visible-NIR-Driven Photocatalytic and Photothermal Catalytic Performance by Ag/Mesoporous Black TiO ₂ Nanotube Heterojunctions. <i>Chemistry - an Asian Journal</i> , 2019, 14, 177-186.	3.3	39
22	Cadmium sulfide quantum dots/dodecahedral polyoxometalates/oxygen-doped mesoporous graphite carbon nitride with Z-scheme and Type-II as tandem heterojunctions for boosting visible-light-driven photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 752-763.	9.4	39
23	Room temperature solution synthesis of hierarchical bow-like Cu ₂ O with high visible light driven photocatalytic activity. <i>RSC Advances</i> , 2012, 2, 2875.	3.6	38
24	Hexagonal FeS nanosheets with high-energy (001) facets: Counter electrode materials superior to platinum for dye-sensitized solar cells. <i>Nano Research</i> , 2016, 9, 2862-2874.	10.4	38
25	Plasma Cu-decorated TiO ₂ /CoP particle-level hierarchical heterojunctions with enhanced photocatalytic-photothermal performance. <i>Journal of Hazardous Materials</i> , 2021, 414, 125487.	12.4	36
26	Highly dispersed Ni-decorated porous hollow carbon nanofibers: fabrication, characterization, and NO _x gas sensors at room temperature. <i>Journal of Materials Chemistry</i> , 2012, 22, 24814.	6.7	35
27	Zinc sulfide quantum dots/zinc oxide nanospheres/bismuth-enriched bismuth oxyiodides as Z-scheme/type-II tandem heterojunctions for an efficient charge separation and boost solar-driven photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2021, 592, 259-270.	9.4	35
28	Review on Low-Cost Counter Electrode Materials for Dye-Sensitized Solar Cells: Effective Strategy to Improve Photovoltaic Performance. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	35
29	Dual plasmons-promoted electron-hole separation for direct Z-scheme Bi ₃ O ₄ Cl/AgCl heterojunction ultrathin nanosheets and enhanced photocatalytic-photothermal performance. <i>Journal of Hazardous Materials</i> , 2020, 384, 121268.	12.4	34
30	Engineering surface defects on two-dimensional ultrathin mesoporous anatase TiO ₂ nanosheets for efficient charge separation and exceptional solar-driven photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3476-3482.	5.5	34
31	Selenization of Cu ₂ ZnSnS ₄ Enhanced the Performance of Dye-Sensitized Solar Cells: Improved Zinc-Site Catalytic Activity for I ₃ ⁻ . <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37662-37670.	8.0	33
32	Flower-like CoP microballs assembled with (002) facet nanowires via precursor route: Efficient electrocatalysts for hydrogen and oxygen evolution. <i>Electrochimica Acta</i> , 2018, 259, 830-840.	5.2	33
33	Large-scale synthesis of stable mesoporous black TiO ₂ nanosheets for efficient solar-driven photocatalytic hydrogen evolution via an earth-abundant low-cost biotemplate. <i>RSC Advances</i> , 2016, 6, 50506-50512.	3.6	29
34	Plasmon Ag and CdS quantum dot co-decorated 3D hierarchical ball-flower-like Bi ₅ O ₇ I nanosheets as tandem heterojunctions for enhanced photothermal-photocatalytic performance. <i>Catalysis Science and Technology</i> , 2019, 9, 6714-6722.	4.1	29
35	Fabrication of a 3D Hierarchical Flower-Like MgO Microsphere and Its Application as Heterogeneous Catalyst. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 954-960.	2.0	27
36	Monodispersed Nickel Phosphide Nanocrystals in Situ Grown on Reduced Graphene Oxide with Controllable Size and Composition as a Counter Electrode for Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5920-5926.	6.7	27

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37	A facile and green synthesis route towards two-dimensional TiO ₂ @Ag heterojunction structure with enhanced visible light photocatalytic activity. <i>CrystEngComm</i> , 2013, 15, 5821.	2.6	25
38	Surface defect-mediated efficient electron-hole separation in hierarchical flower-like bismuth molybdate hollow spheres for enhanced visible-light-driven photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 664-671.	9.4	25
39	Surface engineering of mesoporous anatase titanium dioxide nanotubes for rapid spatial charge separation on horizontal-vertical dimensions and efficient solar-driven photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 75-83.	9.4	25
40	Solvothermal Synthesis, Characterization, and Formation Mechanism of a Single-Layer Anatase TiO ₂ Nanosheet with a Porous Structure. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 754-760.	2.0	22
41	Pure phase orthorhombic MgTi ₂ O ₅ photocatalyst for H ₂ production. <i>RSC Advances</i> , 2015, 5, 106151-106155.	3.6	22
42	Controlled synthesis of CaTiO ₃ :Ln ³⁺ nanocrystals for luminescence and photocatalytic hydrogen production. <i>RSC Advances</i> , 2016, 6, 5761-5766.	3.6	22
43	Facile Strategy to Fabricate Uniform Black TiO ₂ Nanothorns/Graphene/Black TiO ₂ Nanothorns Sandwichlike Nanosheets for Excellent Solar-Driven Photocatalytic Performance. <i>ChemCatChem</i> , 2016, 8, 3240-3246.	3.7	21
44	Hierarchical CoP Nanostructures on Nickel Foam as Efficient Bifunctional Catalysts for Water Splitting. <i>ChemSusChem</i> , 2021, 14, 1094-1102.	6.8	20
45	Morphology Effect of NiSe Hierarchical Microspheres on the Performance of Dye-Sensitized Solar Cells. <i>ACS Applied Nano Materials</i> , 2018, 1, 4900-4909.	5.0	18
46	Fabrication of Rice-Like Porous Anatase TiO ₂ with High Thermal Stability and Enhanced Photocatalytic Performance. <i>ChemCatChem</i> , 2012, 4, 844-850.	3.7	17
47	Engineering oxygen vacancies in CoO@Co ₃ O ₄ /C nanocomposites for enhanced electrochemical performances. <i>Nanoscale</i> , 2021, 13, 19518-19526.	5.6	17
48	Fe ₃ W ₃ C/WC/Graphitic Carbon Ternary Nanojunction Hybrids for Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2015, 8, 726-733.	6.8	16
49	Surface domain heterojunction on rutile TiO ₂ for highly efficient photocatalytic hydrogen evolution. <i>Nanoscale Horizons</i> , 2020, 5, 1596-1602.	8.0	15
50	Fabrication of noncovalently functionalized brick-like Î²-cyclodextrins/graphene composite dispersions with favorable stability. <i>RSC Advances</i> , 2014, 4, 2813-2819.	3.6	14
51	Surface-oxygen vacancy defect-promoted electron-hole separation of defective tungsten trioxide ultrathin nanosheets and their enhanced solar-driven photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 18-27.	9.4	14
52	Confinement Effect on Ag Clusters in the Channels of Well-Ordered Mesoporous TiO ₂ and their Enhanced Photocatalytic Performance. <i>ChemCatChem</i> , 2013, 5, 1354-1358.	3.7	13
53	High Catalytic Activity of W ₁₈ O ₄₉ Nanowire-Reduced Graphite Oxide Composite Counter Electrode for Dye-Sensitized Solar Cells. <i>ChemistrySelect</i> , 2017, 2, 8927-8935.	1.5	12
54	Facet-Dependent SnS Nanocrystals as the High-Performance Counter Electrode Materials for Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14353-14360.	6.7	11

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55	Facile in-situ fabrication of nanocoral-like bimetallic Co-Mo carbide/nitrogen-doped carbon: a highly active and stable electrocatalyst for hydrogen evolution. <i>Journal of Materials Science</i> , 2021, 56, 11894-11906.	3.7	3
56	Monodisperse MnO nanoparticles in situ grown on reduced graphene oxide via hydrophobic interaction for excellent electromagnetic wave absorption. <i>Journal of Materials Research</i> , 2022, 37, 2175-2184.	2.6	3