

Detlef W Bahnemann

List of Publications by Year in descending order

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530
papers

58,704
citations

2538

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h-index

1152

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all docs

558
docs citations

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times ranked

40171
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid photodegradation mechanism enabled by broad-spectrum absorbing black anatase and reduced graphene oxide nanocomposites. <i>Applied Surface Science</i> , 2022, 575, 151718.	3.1	10
2	Efficient Photocatalytic H ₂ Evolution by Hexaniobate Nanosheets Grafted with Copper Nanoclusters. <i>ChemPhotoChem</i> , 2022, 6, .	1.5	2
3	Photocatalytic H ₂ production and degradation of aqueous 2-chlorophenol over B/N-graphene-coated Cu ₀ /TiO ₂ : A DFT, experimental and mechanistic investigation. <i>Journal of Environmental Management</i> , 2022, 311, 114822.	3.8	11
4	Thermo-photodynamic perspective of the simultaneous S-Scheme ternary heterostructure through Ag ₃ VO ₄ shuttle for the increased photo-redox ability. <i>Applied Materials Today</i> , 2022, 27, 101435.	2.3	1
5	Effect of the Heterovalent Doping of TiO ₂ with Sc ³⁺ and Nb ⁵⁺ on the Defect Distribution and Photocatalytic Activity. <i>Catalysts</i> , 2022, 12, 484.	1.6	4
6	Highly Stable Au/Hexaniobate Nanocomposite Prepared by a Green Intercalation Method for Photoinduced H ₂ Evolution Applications. <i>ACS Applied Energy Materials</i> , 2022, 5, 8371-8380.	2.5	2
7	Effect of Sc ³⁺ /V ⁵⁺ Co-Doping on Photocatalytic Activity of TiO ₂ . <i>Topics in Catalysis</i> , 2021, 64, 817-823.	1.3	8
8	Charge Carriers in Commercial Photocatalysts: Fractal Kinetics and Effect of "Inert" Additives. <i>Topics in Catalysis</i> , 2021, 64, 737-747.	1.3	2
9	CO ₂ towards fuels: A review of catalytic conversion of carbon dioxide to hydrocarbons. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104756.	3.3	147
10	Pyrolysis conversion of metal organic frameworks to form uniform codoped C/N-Titania photocatalyst for H ₂ production through simulated solar light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 407, 113037.	2.0	20
11	Photocatalytic Hydrogen Evolution Over Pt/Co-TiO ₂ Photocatalysts. <i>Journal of Photocatalysis</i> , 2021, 2, 35-48.	0.4	0
12	TiO ₂ Photocatalysis for the Transformation of Aromatic Water Pollutants into Fuels. <i>Catalysts</i> , 2021, 11, 317.	1.6	34
13	Photoactive Heterostructures: How They Are Made and Explored. <i>Catalysts</i> , 2021, 11, 294.	1.6	13
14	Photoinduced H ₂ Evolution by Hexaniobate Sheets Grafted with Metal Ions: The Fate of Photogenerated Carriers. <i>ACS Applied Energy Materials</i> , 2021, 4, 3681-3692.	2.5	8
15	Editorial: Special Issue on Photocatalytic Nanocomposite Materials (PNMs). <i>Catalysts</i> , 2021, 11, 587.	1.6	0
16	Isotope Effects in Photocatalysis: An Underexplored Issue. <i>ACS Omega</i> , 2021, 6, 11113-11121.	1.6	8
17	A Bifunctional 2D Interlayered $\text{P}^{\text{a}}\text{Cu}_{2}\text{V}_{2}\text{O}_{7}/\text{Zn}_{2}\text{V}_{2}\text{O}_{6}$ (CZVO) Heterojunction for Solar-Driven Nonsacrificial Dye Degradation and Water Oxidation. <i>Energy Technology</i> , 2021, 9, 2100034.	1.8	27
18	Effect of Cu ₂ O Substrate on Photoinduced Hydrophilicity of TiO ₂ and ZnO Nanocoatings. <i>Nanomaterials</i> , 2021, 11, 1526.	1.9	4

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19	UV-induced alteration of luminescence chromaticity of Ln-based MOF-76. <i>Journal of Luminescence</i> , 2021, 235, 117970.	1.5	6
20	Hybrid Organic-Inorganic Halide Post-Perovskite Cyanopyridinium Lead Tribromide for Optoelectronic Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2102338.	7.8	18
21	Visible light-driven novel Bi ₂ Ti ₂ O ₇ /CaTiO ₃ composite photocatalyst with enhanced photocatalytic activity towards NO removal. <i>Chemosphere</i> , 2021, 275, 130083.	4.2	48
22	Photocatalytic NO _x removal using tantalum oxide nanoparticles: A benign pathway. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 119974.	10.8	58
23	Photoinduced hydrophilic behavior of TiO ₂ thin film on Si substrate. <i>Journal of Alloys and Compounds</i> , 2021, 872, 159746.	2.8	12
24	Novel Ag decorated, BiOCl surface doped AgVO ₃ nanobelt ternary composite with Z-scheme homojunction-heterojunction interface for high prolific photo switching, quantum efficiency and hole mediated photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021, 293, 120224.	10.8	82
25	Assessing the photocatalytic oxygen evolution reaction of BiFeO ₃ loaded with IrO ₂ nanoparticles as cocatalyst. <i>Solar Energy Materials and Solar Cells</i> , 2021, 232, 111349.	3.0	13
26	TiO ₂ photocatalysis: Impact of the platinum loading method on reductive and oxidative half-reactions. <i>Catalysis Today</i> , 2021, 380, 3-15.	2.2	19
27	MgFe ₂ O ₄ decoration of g-C ₃ N ₄ nanosheets to enhance CIP oxidation in visible-light photocatalysis. <i>Optical Materials</i> , 2021, 121, 111598.	1.7	11
28	Controlled synthesis of Ag ₂ O/g-C ₃ N ₄ heterostructures using soft and hard templates for efficient and enhanced visible-light degradation of ciprofloxacin. <i>Ceramics International</i> , 2021, 47, 31073-31083.	2.3	18
29	Synthesis of metal-free functionalized g-C ₃ N ₄ nanosheets for enhanced photocatalytic activity. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106389.	3.3	5
30	Polarization-enhanced photocatalytic activity in non-centrosymmetric materials based photocatalysis: A review. <i>Chemical Engineering Journal</i> , 2021, 426, 131681.	6.6	57
31	Photocatalytic H ₂ Production from Naphthalene by Various TiO ₂ Photocatalysts: Impact of Pt Loading and Formation of Intermediates. <i>Catalysts</i> , 2021, 11, 107.	1.6	19
32	Multi-dimensional applications of graphitic carbon nitride nanomaterials – A review. <i>Journal of Molecular Liquids</i> , 2021, 344, 117820.	2.3	46
33	7th International Conference on Semiconductor Photochemistry (SP7). <i>Topics in Catalysis</i> , 2021, 64, 735-736.	1.3	0
34	Boosting the H ₂ Production Efficiency via Photocatalytic Organic Reforming: The Role of Additional Hole Scavenging System. <i>Catalysts</i> , 2021, 11, 1423.	1.6	16
35	Construction of mesoporous CdO/g-C ₃ N ₄ nanocomposites for photooxidation of ciprofloxacin under visible light exposure. <i>Optical Materials</i> , 2021, 122, 111816.	1.7	0
36	Effect of the Type of Heterostructures on Photostimulated Alteration of the Surface Hydrophilicity: TiO ₂ /BiVO ₄ vs. ZnO/BiVO ₄ Planar Heterostructured Coatings. <i>Catalysts</i> , 2021, 11, 1424.	1.6	5

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37	Application of EPR Spectroscopy in TiO ₂ and Nb ₂ O ₅ Photocatalysis. <i>Catalysts</i> , 2021, 11, 1514.	1.6	28
38	Isotopic studies on the degradation of acetaldehyde on anatase surfaces. <i>Catalysis Today</i> , 2020, 340, 318-322.	2.2	7
39	Determination of the quantum yield of a heterogeneous photocatalytic reaction employing a black body photoreactor. <i>Catalysis Today</i> , 2020, 355, 698-703.	2.2	11
40	H ₂ production using CuS/g-C ₃ N ₄ nanocomposites under visible light. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 223-232.	1.6	15
41	TiO ₂ -reduced graphene oxide nanocomposites: Microsecond charge carrier kinetics. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 386, 112112.	2.0	9
42	Photo-catalytic destruction of acetaldehyde using cobalt, copper co-doped titania dioxide nanoparticles beneath Visible light. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 931-939.	1.6	6
43	Anchoring lead-free halide Cs ₃ Bi ₂ I ₉ perovskite on UV100%TiO ₂ for enhanced photocatalytic performance. <i>Solar Energy Materials and Solar Cells</i> , 2020, 204, 110214.	3.0	35
44	Hematite and Magnetite Nanostructures for Green and Sustainable Energy Harnessing and Environmental Pollution Control: A Review. <i>Chemical Research in Toxicology</i> , 2020, 33, 1292-1311.	1.7	102
45	Photoelectrochemistry of Ferrites: Theoretical Predictions vs. Experimental Results. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020, 234, 719-776.	1.4	24
46	Hybrid lead triiodide perovskites with unsaturated heterocyclic cations containing N, O, and S atoms: Ab initio study. <i>Journal of Solid State Chemistry</i> , 2020, 282, 121082.	1.4	4
47	Nanoporous TiO ₂ spheres with tailored textural properties: Controllable synthesis, formation mechanism, and photochemical applications. <i>Progress in Materials Science</i> , 2020, 109, 100620.	16.0	100
48	Photogenerated Charge Carriers Dynamics on La- and/or Cr-Doped SrTiO ₃ Nanoparticles Studied by Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1292-1302.	1.5	19
49	Soft and hard templates assisted synthesis mesoporous CuO/g-C ₃ N ₄ heterostructures for highly enhanced and accelerated Hg(II) photoreduction under visible light. <i>Journal of Colloid and Interface Science</i> , 2020, 580, 223-233.	5.0	106
50	Rich surface hydroxyl design for nanostructured TiO ₂ and its hole-trapping effect. <i>Chemical Engineering Journal</i> , 2020, 400, 125909.	6.6	43
51	Dynamics of Photogenerated Charge Carriers in TiO ₂ /MoO ₃ , TiO ₂ /WO ₃ and TiO ₂ /V ₂ O ₅ Photocatalysts with Mosaic Structure. <i>Catalysts</i> , 2020, 10, 1022.	1.6	10
52	A Selective Synthesis of TaON Nanoparticles and Their Comparative Study of Photoelectrochemical Properties. <i>Catalysts</i> , 2020, 10, 1128.	1.6	7
53	Novel 3D photoactive direct bandgap perovskites CsBiPbX ₆ : Ab initio structure and electronic properties. <i>Computational Materials Science</i> , 2020, 183, 109819.	1.4	1
54	Mechanistic Insights into Hydrogen Evolution by Photocatalytic Reforming of Naphthalene. <i>ACS Catalysis</i> , 2020, 10, 7398-7412.	5.5	29

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55	Nitrogen/Carbon-Coated Zero-Valent Copper as Highly Efficient Co-catalysts for TiO ₂ Applied in Photocatalytic and Photoelectrocatalytic Hydrogen Production. ACS Applied Materials & Interfaces, 2020, 12, 30365-30380.	4.0	35
56	Performance of mesoporous γ -Fe ₂ O ₃ /g-C ₃ N ₄ heterojunction for photoreduction of Hg(II) under visible light illumination. Ceramics International, 2020, 46, 23098-23106.	2.3	88
57	Photomineralization of untreated wastewater by a novel LaCeZr ₂ O ₇ @SnSe nanocomposite as a visible light driven heterogeneous photocatalyst. Solid State Sciences, 2020, 106, 106305.	1.5	7
58	Evaluating carbon dots as electron mediators in photochemical and photocatalytic processes of NiFe ₂ O ₄ . APL Materials, 2020, 8, 031105.	2.2	6
59	The effect of organic cations on the electronic, optical and luminescence properties of 1D piperidinium, pyridinium, and 3-hydroxypyridinium lead trihalides. Dalton Transactions, 2020, 49, 4390-4403.	1.6	16
60	Recent Progresses on Metal Halide Perovskite-Based Material as Potential Photocatalyst. Catalysts, 2020, 10, 709.	1.6	65
61	Photocatalytic H ₂ Evolution from Oxalic Acid: Effect of Cocatalysts and Carbon Dioxide Radical Anion on the Surface Charge Transfer Mechanisms. ACS Applied Energy Materials, 2020, 3, 6678-6691.	2.5	25
62	Decoration of g-C ₃ N ₄ nanosheets by mesoporous CoFe ₂ O ₄ nanoparticles for promoting visible-light photocatalytic Hg(II) reduction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 603, 125206.	2.3	72
63	Cs ₃ Bi ₂ I ₉ /g-C ₃ N ₄ as a new binary photocatalyst for efficient visible-light photocatalytic processes. Separation and Purification Technology, 2020, 251, 117320.	3.9	56
64	Ag(I) ions working as a hole-transfer mediator in photoelectrocatalytic water oxidation on WO ₃ film. Nature Communications, 2020, 11, 967.	5.8	66
65	UV/Vis Light Induced Degradation of Oxytetracycline Hydrochloride Mediated by Co-TiO ₂ Nanoparticles. Molecules, 2020, 25, 249.	1.7	26
66	Recent Advances in Niobium-Based Materials for Photocatalytic Solar Fuel Production. Catalysts, 2020, 10, 126.	1.6	55
67	Rh/TiO ₂ -Photocatalyzed Acceptorless Dehydrogenation of N-Heterocycles upon Visible-Light Illumination. ACS Catalysis, 2020, 10, 5542-5553.	5.5	78
68	Pb-Free Cs ₃ Bi ₂ I ₉ Perovskite as a Visible-Light-Active Photocatalyst for Organic Pollutant Degradation. Nanomaterials, 2020, 10, 763.	1.9	47
69	Latest progress in g-C ₃ N ₄ based heterojunctions for hydrogen production via photocatalytic water splitting: a mini review. JPhys Energy, 2020, 2, 042003.	2.3	41
70	The Study of Photoactive Materials. Reviews and Advances in Chemistry, 2020, 10, 73-111.	0.2	1
71	Photocatalytic properties of layer-by-layer thin films of hexaniobate nanoscrolls. Catalysis Today, 2019, 326, 60-67.	2.2	14
72	Elastic, phononic, magnetic and electronic properties of quasi-one-dimensional PbFeBO ₄ . Journal of Materials Science, 2019, 54, 13579-13593.	1.7	2

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73	TiO ₂ nanoparticles with superior hydrogen evolution and pollutant degradation performance. International Journal of Hydrogen Energy, 2019, 44, 24162-24173.	3.8	18
74	Unraveling the photocatalytic properties of TiO ₂ /WO ₃ mixed oxides. Photochemical and Photobiological Sciences, 2019, 18, 2469-2483.	1.6	35
75	Preparation ultrafine L-Methionine (C,N,S triple doped)-TiO ₂ -ZnO nanoparticles and their photocatalytic performance for fouling alleviation in PES nanocomposite membrane. Composites Part B: Engineering, 2019, 176, 107158.	5.9	39
76	Reaction Rate Study of the Photocatalytic Degradation of Dichloroacetic Acid in a Black Body Reactor. Catalysts, 2019, 9, 635.	1.6	8
77	Light-Induced Reactions of Chlorpromazine in the Presence of a Heterogeneous Photocatalyst: Formation of a Long-Lasting Sulfoxide. Catalysts, 2019, 9, 627.	1.6	13
78	Photodegradation of Herbicide Imazapyr and Phenol over Mesoporous Bicrystalline Phases TiO ₂ : A Kinetic Study. Catalysts, 2019, 9, 640.	1.6	14
79	Mechanistic Investigations of Photoelectrochemical Water and Methanol Oxidation on Well-Defined TiO ₂ Anatase (101) and Rutile (110) Surfaces. ACS Applied Energy Materials, 2019, 2, 5308-5318.	2.5	15
80	Transmission IR cell for atmosphere-controlled studies of photoprocesses on powdered high surface area materials. Review of Scientific Instruments, 2019, 90, 105113.	0.6	6
81	Visible-Light-Mediated Photocatalytic Aerobic Dehydrogenation of N-heterocycles by Surface-Grafted TiO ₂ and 4-amino-TEMPO. ACS Catalysis, 2019, 9, 10694-10704.	5.5	72
82	Regarding the Nature of Charge Carriers Formed by UV or Visible Light Excitation of Carbon-Modified Titanium Dioxide. Catalysts, 2019, 9, 697.	1.6	7
83	Tailoring the Photoelectrochemical Activity of TiO ₂ Electrodes by Multilayer Screen-Printing. ChemCatChem, 2019, 11, 6439-6450.	1.8	11
84	Effect of the Degree of Inversion on the Electrical Conductivity of Spinel ZnFe ₂ O ₄ . ChemistrySelect, 2019, 4, 1232-1239.	0.7	23
85	Design and synthesis of imidazole-triphenylamine based organic materials for dye sensitized solar cells. Materials Letters, 2019, 242, 28-31.	1.3	30
86	Modulating optoelectronic properties of organo-metal halide perovskites with unsaturated heterocyclic cations via ring substitution. Journal of Physics and Chemistry of Solids, 2019, 135, 109078.	1.9	3
87	Ultrathin-Layer Structure of BiOI Microspheres Decorated on N-Doped Biochar With Efficient Photocatalytic Activity. Frontiers in Chemistry, 2019, 7, 378.	1.8	29
88	Photoenzymatic Hydroxylation of Ethylbenzene Catalyzed by Unspecific Peroxygenase: Origin of Enzyme Inactivation and the Impact of Light Intensity and Temperature. ChemCatChem, 2019, 11, 3093-3100.	1.8	31
89	Effect of the Degree of Inversion on the Photoelectrochemical Activity of Spinel ZnFe ₂ O ₄ . Catalysts, 2019, 9, 434.	1.6	18
90	Effect of the TiO ₂ -ZnO Heterostructure on the Photoinduced Hydrophilic Conversion of TiO ₂ and ZnO Surfaces. Journal of Physical Chemistry C, 2019, 123, 8884-8891.	1.5	24

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91	Novel hybrid semiconducting lead and tin halide perovskites with saturated heterocyclic cations (CH ₂) _n PH ₂ ⁺ and (CH ₂) _n SH ⁺ , (n=2-6): Ab initio study. <i>Materials Chemistry and Physics</i> , 2019, 229, 387-391.	2.0	2
92	ZnO@ porous graphite nanocomposite from waste for superior photocatalytic activity. <i>Environmental Science and Pollution Research</i> , 2019, 26, 12288-12301.	2.7	28
93	Photodegradation of Microcystin-LR Using Visible Light-Activated C/N-co-Modified Mesoporous TiO ₂ Photocatalyst. <i>Materials</i> , 2019, 12, 1027.	1.3	22
94	Two-Dimensional Layered Zinc Silicate Nanosheets with Excellent Photocatalytic Performance for Organic Pollutant Degradation and CO ₂ Conversion. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8103-8108.	7.2	90
95	Two-Dimensional Layered Zinc Silicate Nanosheets with Excellent Photocatalytic Performance for Organic Pollutant Degradation and CO ₂ Conversion. <i>Angewandte Chemie</i> , 2019, 131, 8187-8192.	1.6	6
96	Quantification of formaldehyde production during alkaline methanol electrooxidation. <i>Electrochemistry Communications</i> , 2019, 102, 57-62.	2.3	16
97	In-Situ Synthesis of Nb ₂ O ₅ /g-C ₃ N ₄ Heterostructures as Highly Efficient Photocatalysts for Molecular H ₂ Evolution under Solar Illumination. <i>Catalysts</i> , 2019, 9, 169.	1.6	40
98	A novel L-Histidine (C, N) codoped-TiO ₂ -CdS nanocomposite for efficient visible photo-degradation of recalcitrant compounds from wastewater. <i>Journal of Hazardous Materials</i> , 2019, 369, 384-397.	6.5	47
99	Influence of the preparation conditions on the morphology and photocatalytic performance Pt-modified hexaniobate composites. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 394001.	0.7	9
100	A Comparative Study of Microcystin-LR Degradation by UV-A, Solar and Visible Light Irradiation Using Bare and C/N/S-Modified Titania. <i>Catalysts</i> , 2019, 9, 877.	1.6	7
101	Photoelectrochemical Behavior of the Ternary Heterostructured Systems CdS/WO ₃ /TiO ₂ . <i>Catalysts</i> , 2019, 9, 999.	1.6	10
102	Synthesis, characterization and photocatalytic activity of LaNdZr ₂ O ₇ supported SnSe nanocomposites for the degradation of Foron blue dye. <i>Applied Surface Science</i> , 2019, 463, 1019-1027.	3.1	24
103	Preparation and characterization of a novel photocatalytic self-cleaning PES nanofiltration membrane by embedding a visible-driven photocatalyst boron doped-TiO ₂ SiO ₂ /CoFe ₂ O ₄ nanoparticles. <i>Separation and Purification Technology</i> , 2019, 209, 764-775.	3.9	91
104	Photodegradation of 4-aminoantipyrine over nano-titania heterojunctions using solar and LED irradiation sources. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102797.	3.3	17
105	Modeling and Optimization of the Photocatalytic Reduction of Molecular Oxygen to Hydrogen Peroxide over Titanium Dioxide. <i>ACS Catalysis</i> , 2019, 9, 25-37.	5.5	98
106	Kinetic effects and oxidation pathways of sacrificial electron donors on the example of the photocatalytic reduction of molecular oxygen to hydrogen peroxide over illuminated titanium dioxide. <i>Catalysis Today</i> , 2019, 335, 354-364.	2.2	21
107	Charge carrier trapping, recombination and transfer during TiO ₂ photocatalysis: An overview. <i>Catalysis Today</i> , 2019, 335, 78-90.	2.2	350
108	Insights into Different Photocatalytic Oxidation Activities of Anatase, Brookite, and Rutile Single-Crystal Facets. <i>ACS Catalysis</i> , 2019, 9, 1001-1012.	5.5	37

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109	Highly efficient solar light-assisted TiO ₂ nanocrystalline for photodegradation of ibuprofen drug. <i>Optical Materials</i> , 2019, 88, 117-127.	1.7	55
110	Iron-based photocatalytic and photoelectrocatalytic nano-structures: Facts, perspectives, and expectations. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 1065-1095.	10.8	100
111	Nature and photoreactivity of TiO ₂ -rGO nanocomposites in aqueous suspensions under UV-A irradiation. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 375-384.	10.8	41
112	Changes in the solid-state properties of bismuth iron oxide during the photocatalytic reformation of formic acid. <i>Catalysis Today</i> , 2019, 326, 22-29.	2.2	13
113	Photocatalytic reduction of Cr(VI) on hematite nanoparticles in the presence of oxalate and citrate. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 218-226.	10.8	110
114	Synthesis of visible light driven TiO ₂ coated carbon nanospheres for degradation of dyes. <i>Arabian Journal of Chemistry</i> , 2019, 12, 3534-3545.	2.3	42
115	Kinetic and mechanistic features on the reaction of stored TiO ₂ electrons with Hg (II), Pb (II) and Ni (II) in aqueous suspension. <i>Arabian Journal of Chemistry</i> , 2019, 12, 5134-5141.	2.3	12
116	Dynamics of photoinduced bulk and surface reactions involving semiconductors characterized by time resolved spectroscopy techniques (2015–2018). <i>Photochemistry</i> , 2019, , 122-158.	0.2	7
117	Construction of Visible Light Responsive CdSe/g-C ₃ N ₄ Nanocomposites for H ₂ Production. <i>Nanoscience and Nanotechnology Letters</i> , 2019, 11, 1281-1291.	0.4	3
118	Comparison Between Ag@TiO ₂ Core-Shell and Yolk-Shell Structures for Degradation of Gaseous Toluene Beneath Visible Light. <i>Nanoscience and Nanotechnology Letters</i> , 2019, 11, 1226-1238.	0.4	1
119	Photocatalytic conversion of biomass into valuable products: a meaningful approach?. <i>Green Chemistry</i> , 2018, 20, 1169-1192.	4.6	181
120	Surface modification of Na-K 2 Ti 6 O 13 photocatalyst with Cu(II)-nanocluster for efficient visible-light-driven photocatalytic activity. <i>Materials Letters</i> , 2018, 220, 50-53.	1.3	13
121	Influence of inorganic additives on the photocatalytic removal of nitric oxide and on the charge carrier dynamics of TiO ₂ powders. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 366, 142-151.	2.0	6
122	Strong Transient Absorption of Trapped Holes in Anatase and Rutile TiO ₂ at High Laser Intensities. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13979-13985.	1.5	18
123	One-Pot Fabrication of High Coverage PbS Quantum Dot Nanocrystal-Sensitized Titania Nanotubes for Photoelectrochemical Processes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13659-13668.	1.5	25
124	Understanding the degradation pathways of oxalic acid in different photocatalytic systems: Towards simultaneous photocatalytic hydrogen evolution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 366, 81-90.	2.0	25
125	Photocatalytic activity and charge carrier dynamics of TiO ₂ powders with a binary particle size distribution. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8119-8132.	1.3	21
126	Harvesting visible light with MoO ₃ nanorods modified by Fe(III) nanoclusters for effective photocatalytic degradation of organic pollutants. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4538-4545.	1.3	55

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127	Mechanisms of Photocatalytic Molecular Hydrogen and Molecular Oxygen Evolution over La-Doped NaTaO ₃ Particles: Effect of Different Cocatalysts and Their Specific Activity. ACS Catalysis, 2018, 8, 2313-2325.	5.5	46
128	New insights into the plasmonic enhancement for photocatalytic H ₂ production by Cu@TiO ₂ upon visible light illumination. Physical Chemistry Chemical Physics, 2018, 20, 5264-5273.	1.3	60
129	Application of a novel triple metal-nonmetal doped TiO ₂ (K-B-N-TiO ₂) for photocatalytic degradation of Linear Alkyl Benzene (LAB) industrial wastewater under visible light. Materials Science in Semiconductor Processing, 2018, 75, 193-205.	1.9	22
130	Photocatalytic degradation of the herbicide imazapyr: do the initial degradation rates correlate with the adsorption kinetics and isotherms?. Catalysis Science and Technology, 2018, 8, 985-995.	2.1	31
131	Low Inhomogeneous Broadening of Excitonic Resonance in MAPbBr ₃ Single Crystals. Journal of Physical Chemistry Letters, 2018, 9, 302-305.	2.1	27
132	Visible-light photocatalytic activity of zinc ferrites. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 366, 118-126.	2.0	54
133	The role of Au loading for visible-light photocatalytic activity of Au-TiO ₂ (anatase). Journal of Photochemistry and Photobiology A: Chemistry, 2018, 366, 111-117.	2.0	18
134	Influence of the Dopant Concentration on the Photoelectrochemical Behavior of Al-Doped TiO ₂ . Journal of Physical Chemistry C, 2018, 122, 7975-7981.	1.5	17
135	Photocatalytic CO ₂ Reduction by Re(I) Polypyridyl Complexes Immobilized on Niobates Nanoscrolls. ACS Sustainable Chemistry and Engineering, 2018, 6, 6073-6083.	3.2	34
136	Synthesis, Characterization and Photocatalytic Activity of Carbon Nanotube/Titanium Dioxide Nanocomposites. Arabian Journal for Science and Engineering, 2018, 43, 199-210.	1.7	35
137	Synthesis of iron and copper cluster-grafted zinc oxide nanorod with enhanced visible-light-induced photocatalytic activity. Journal of Colloid and Interface Science, 2018, 509, 68-72.	5.0	31
138	Surface-grafted WO ₃ /TiO ₂ photocatalysts: Enhanced visible-light activity towards indoor air purification. Catalysis Today, 2018, 313, 63-71.	2.2	74
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