

# Detlef W Bahnemann

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

521  
papers

49,076  
citations

88  
h-index

212  
g-index

558  
ext. papers

53,737  
ext. citations

6.4  
avg, IF

7.92  
L-index

#	Paper	IF	Citations
521	Photocatalytic H <sub>2</sub> production and degradation of aqueous 2-chlorophenol over B/N-graphene-coated Cu/TiO <sub>2</sub> : A DFT, experimental and mechanistic investigation.. <i>Journal of Environmental Management</i> , <b>2022</b> , 311, 114822	7.9	1
520	Thermo-photodynamic perspective of the simultaneous S-Scheme ternary heterostructure through Ag <sub>3</sub> VO <sub>4</sub> shuttle for the increased photo-redox ability. <i>Applied Materials Today</i> , <b>2022</b> , 27, 101435	6.6	
519	Effect of the Heterovalent Doping of TiO <sub>2</sub> with Sc <sup>3+</sup> and Nb <sup>5+</sup> on the Defect Distribution and Photocatalytic Activity. <i>Catalysts</i> , <b>2022</b> , 12, 484	4	0
518	7th International Conference on Semiconductor Photochemistry (SP7). <i>Topics in Catalysis</i> , <b>2021</b> , 64, 735	2.3	
517	Boosting the H <sub>2</sub> Production Efficiency via Photocatalytic Organic Reforming: The Role of Additional Hole Scavenging System. <i>Catalysts</i> , <b>2021</b> , 11, 1423	4	6
516	Construction of mesoporous CdO/g-C <sub>3</sub> N <sub>4</sub> nanocomposites for photooxidation of ciprofloxacin under visible light exposure. <i>Optical Materials</i> , <b>2021</b> , 122, 111816	3.3	
515	Effect of the Type of Heterostructures on Photostimulated Alteration of the Surface Hydrophilicity: TiO <sub>2</sub> /BiVO <sub>4</sub> vs. ZnO/BiVO <sub>4</sub> Planar Heterostructured Coatings. <i>Catalysts</i> , <b>2021</b> , 11, 1424	4	2
514	Multi-dimensional applications of graphitic carbon nitride nanomaterials – A review. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 344, 117820	6	3
513	Rapid photodegradation mechanism enabled by broad-spectrum absorbing black anatase and reduced graphene oxide nanocomposites. <i>Applied Surface Science</i> , <b>2021</b> , 575, 151718	6.7	5
512	Isotope Effects in Photocatalysis: An Underexplored Issue. <i>ACS Omega</i> , <b>2021</b> , 6, 11113-11121	3.9	3
511	A Bifunctional 2D Interlayered [Cu <sub>2</sub> V <sub>2</sub> O <sub>7</sub> /Zn <sub>2</sub> V <sub>2</sub> O <sub>6</sub> (CZVO) Heterojunction for Solar-Driven Nonsacrificial Dye Degradation and Water Oxidation. <i>Energy Technology</i> , <b>2021</b> , 9, 2100034	3.5	8
510	Effect of CuO Substrate on Photoinduced Hydrophilicity of TiO <sub>2</sub> and ZnO Nanocoatings. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
509	UV-induced alteration of luminescence chromaticity of Ln-based MOF-76. <i>Journal of Luminescence</i> , <b>2021</b> , 235, 117970	3.8	1
508	CO <sub>2</sub> towards fuels: A review of catalytic conversion of carbon dioxide to hydrocarbons. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104756	6.8	57
507	Pyrolysis conversion of metal organic frameworks to form uniform codoped C/N-Titania photocatalyst for H <sub>2</sub> production through simulated solar light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 407, 113037	4.7	6
506	Photocatalytic Hydrogen Evolution Over Pt/Co-TiO <sub>2</sub> Photocatalysts. <i>Journal of Photocatalysis</i> , <b>2021</b> , 2, 35-48	0.8	
505	TiO <sub>2</sub> Photocatalysis for the Transformation of Aromatic Water Pollutants into Fuels. <i>Catalysts</i> , <b>2021</b> , 11, 317	4	14

504	Photoactive Heterostructures: How They Are Made and Explored. <i>Catalysts</i> , <b>2021</b> , 11, 294	4	4
503	Photoinduced H <sub>2</sub> Evolution by Hexaniobate Sheets Grafted with Metal Ions: The Fate of Photogenerated Carriers. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 3681-3692	6.1	3
502	Hybrid Organic-Inorganic Halide Post-Perovskite 3-Cyanopyridinium Lead Tribromide for Optoelectronic Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102338	15.6	3
501	Visible light-driven novel BiTiO/CaTiO composite photocatalyst with enhanced photocatalytic activity towards NO removal. <i>Chemosphere</i> , <b>2021</b> , 275, 130083	8.4	10
500	Photocatalytic NO <sub>x</sub> removal using tantalum oxide nanoparticles: A benign pathway. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 291, 119974	21.8	20
499	Photoinduced hydrophilic behavior of TiO <sub>2</sub> thin film on Si substrate. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 872, 159746	5.7	4
498	Novel Ag decorated, BiOCl surface doped AgVO <sub>3</sub> 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> , <b>2021</b> , 293, 120224	21.8	25
497	Assessing the photocatalytic oxygen evolution reaction of BiFeO <sub>3</sub> loaded with IrO <sub>2</sub> nanoparticles as cocatalyst. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 232, 111349	6.4	3
496	TiO <sub>2</sub> photocatalysis: Impact of the platinum loading method on reductive and oxidative half-reactions. <i>Catalysis Today</i> , <b>2021</b> , 380, 3-15	5.3	8
495	MgFe <sub>2</sub> O <sub>4</sub> decoration of g-C <sub>3</sub> N <sub>4</sub> nanosheets to enhance CIP oxidation in visible-light photocatalysis. <i>Optical Materials</i> , <b>2021</b> , 121, 111598	3.3	1
494	Controlled synthesis of Ag <sub>2</sub> O/g-C <sub>3</sub> N <sub>4</sub> heterostructures using soft and hard templates for efficient and enhanced visible-light degradation of ciprofloxacin. <i>Ceramics International</i> , <b>2021</b> , 47, 31073-31083	5.1	3
493	Synthesis of metal-free functionalized g-C <sub>3</sub> N <sub>4</sub> nanosheets for enhanced photocatalytic activity. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106389	6.8	0
492	Polarization-enhanced photocatalytic activity in non-centrosymmetric materials based photocatalysis: A review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 131681	14.7	4
491	Photocatalytic H <sub>2</sub> Production from Naphthalene by Various TiO <sub>2</sub> Photocatalysts: Impact of Pt Loading and Formation of Intermediates. <i>Catalysts</i> , <b>2021</b> , 11, 107	4	8
490	Application of EPR Spectroscopy in TiO <sub>2</sub> and Nb <sub>2</sub> O <sub>5</sub> Photocatalysis. <i>Catalysts</i> , <b>2021</b> , 11, 1514	4	2
489	A Selective Synthesis of TaON Nanoparticles and Their Comparative Study of Photoelectrochemical Properties. <i>Catalysts</i> , <b>2020</b> , 10, 1128	4	3
488	Novel 3D photoactive direct bandgap perovskites CsBiPbX <sub>6</sub> : Ab initio structure and electronic properties. <i>Computational Materials Science</i> , <b>2020</b> , 183, 109819	3.2	1
487	Mechanistic Insights into Hydrogen Evolution by Photocatalytic Reforming of Naphthalene. <i>ACS Catalysis</i> , <b>2020</b> , 10, 7398-7412	13.1	15

486	Nitrogen/Carbon-Coated Zero-Valent Copper as Highly Efficient Co-catalysts for TiO Applied in Photocatalytic and Photoelectrocatalytic Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 30365-30380	9.5	23
485	Effect of Sc <sup>3+</sup> /V <sup>5+</sup> Co-Doping on Photocatalytic Activity of TiO <sub>2</sub> . <i>Topics in Catalysis</i> , <b>2020</b> , 1	2.3	5
484	Performance of mesoporous Fe <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction for photoreduction of Hg(II) under visible light illumination. <i>Ceramics International</i> , <b>2020</b> , 46, 23098-23106	5.1	40
483	Photomineralization of untreated wastewater by a novel LaCeZr <sub>2</sub> O <sub>7</sub> BnSe nanocomposite as a visible light driven heterogeneous photocatalyst. <i>Solid State Sciences</i> , <b>2020</b> , 106, 106305	3.4	3
482	Evaluating carbon dots as electron mediators in photochemical and photocatalytic processes of NiFe <sub>2</sub> O <sub>4</sub> . <i>APL Materials</i> , <b>2020</b> , 8, 031105	5.7	3
481	The effect of organic cations on the electronic, optical and luminescence properties of 1D piperidinium, pyridinium, and 3-hydroxypyridinium lead trihalides. <i>Dalton Transactions</i> , <b>2020</b> , 49, 4390-4403	4.3	5
480	Charge Carriers in Commercial Photocatalysts: Fractal Kinetics and Effect of Inert Additives. <i>Topics in Catalysis</i> , <b>2020</b> , 1	2.3	0
479	Recent Progresses on Metal Halide Perovskite-Based Material as Potential Photocatalyst. <i>Catalysts</i> , <b>2020</b> , 10, 709	4	36
478	Photocatalytic H <sub>2</sub> Evolution from Oxalic Acid: Effect of Cocatalysts and Carbon Dioxide Radical Anion on the Surface Charge Transfer Mechanisms. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6678-6691	6.1	11
477	Decoration of g-C <sub>3</sub> N <sub>4</sub> nanosheets by mesoporous CoFe <sub>2</sub> O <sub>4</sub> nanoparticles for promoting visible-light photocatalytic Hg(II) reduction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 603, 125206	5.1	34
476	Cs <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> /g-C <sub>3</sub> N <sub>4</sub> as a new binary photocatalyst for efficient visible-light photocatalytic processes. <i>Separation and Purification Technology</i> , <b>2020</b> , 251, 117320	8.3	22
475	Ag(I) ions working as a hole-transfer mediator in photoelectrocatalytic water oxidation on WO <sub>3</sub> film. <i>Nature Communications</i> , <b>2020</b> , 11, 967	17.4	34
474	UV/Vis Light Induced Degradation of Oxytetracycline Hydrochloride Mediated by Co-TiO <sub>2</sub> Nanoparticles. <i>Molecules</i> , <b>2020</b> , 25,	4.8	12
473	Recent Advances in Niobium-Based Materials for Photocatalytic Solar Fuel Production. <i>Catalysts</i> , <b>2020</b> , 10, 126	4	30
472	Rh/TiO <sub>2</sub> -Photocatalyzed Acceptorless Dehydrogenation of N-Heterocycles upon Visible-Light Illumination. <i>ACS Catalysis</i> , <b>2020</b> , 10, 5542-5553	13.1	37
471	Pb-Free CsBiI <sub>3</sub> Perovskite as a Visible-Light-Active Photocatalyst for Organic Pollutant Degradation. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	20
470	The Study of Photoactive Materials. <i>Reviews and Advances in Chemistry</i> , <b>2020</b> , 10, 73-111	0	0
469	Latest progress in g-C <sub>3</sub> N <sub>4</sub> based heterojunctions for hydrogen production via photocatalytic water splitting: a mini review. <i>JPhys Energy</i> , <b>2020</b> , 2, 042003	4.9	20

468	Anchoring lead-free halide Cs <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> perovskite on UV100TiO <sub>2</sub> for enhanced photocatalytic performance. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 204, 110214	6.4	18
467	Hematite and Magnetite Nanostructures for Green and Sustainable Energy Harnessing and Environmental Pollution Control: A Review. <i>Chemical Research in Toxicology</i> , <b>2020</b> , 33, 1292-1311	4	59
466	Photoelectrochemistry of Ferrites: Theoretical Predictions vs. Experimental Results. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2020</b> , 234, 719-776	3.1	17
465	Hybrid lead triiodide perovskites with unsaturated heterocyclic cations containing N, O, and S atoms: Ab initio study. <i>Journal of Solid State Chemistry</i> , <b>2020</b> , 282, 121082	3.3	4
464	Nanoporous TiO <sub>2</sub> spheres with tailored textural properties: Controllable synthesis, formation mechanism, and photochemical applications. <i>Progress in Materials Science</i> , <b>2020</b> , 109, 100620	42.2	61
463	Photogenerated Charge Carriers Dynamics on La- and/or Cr-Doped SrTiO <sub>3</sub> Nanoparticles Studied by Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 1292-1302	3.8	10
462	Soft and hard templates assisted synthesis mesoporous CuO/g-CN heterostructures for highly enhanced and accelerated Hg(II) photoreduction under visible light. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 580, 223-233	9.3	50
461	Rich surface hydroxyl design for nanostructured TiO <sub>2</sub> and its hole-trapping effect. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125909	14.7	19
460	Dynamics of Photogenerated Charge Carriers in TiO <sub>2</sub> /MoO <sub>3</sub> , TiO <sub>2</sub> /WO <sub>3</sub> and TiO <sub>2</sub> /V <sub>2</sub> O <sub>5</sub> Photocatalysts with Mosaic Structure. <i>Catalysts</i> , <b>2020</b> , 10, 1022	4	5
459	Isotopic studies on the degradation of acetaldehyde on anatase surfaces. <i>Catalysis Today</i> , <b>2020</b> , 340, 318-322	5.3	5
458	Determination of the quantum yield of a heterogeneous photocatalytic reaction employing a black body photoreactor. <i>Catalysis Today</i> , <b>2020</b> , 355, 698-703	5.3	7
457	H <sub>2</sub> production using CuS/g-C <sub>3</sub> N <sub>4</sub> nanocomposites under visible light. <i>Applied Nanoscience (Switzerland)</i> , <b>2020</b> , 10, 223-232	3.3	10
456	TiO <sub>2</sub> -reduced graphene oxide nanocomposites: Microsecond charge carrier kinetics. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 386, 112112	4.7	5
455	Photo-catalytic destruction of acetaldehyde using cobalt, copper co-doped titania dioxide nanoparticles beneath Visible light. <i>Applied Nanoscience (Switzerland)</i> , <b>2020</b> , 10, 931-939	3.3	5
454	Effect of the Degree of Inversion on the Electrical Conductivity of Spinel ZnFe <sub>2</sub> O <sub>4</sub> . <i>ChemistrySelect</i> , <b>2019</b> , 4, 1232-1239	1.8	13
453	Design and synthesis of imidazole-triphenylamine based organic materials for dye sensitized solar cells. <i>Materials Letters</i> , <b>2019</b> , 242, 28-31	3.3	17
452	Modulating optoelectronic properties of organo-metal halide perovskites with unsaturated heterocyclic cations via ring substitution. <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 135, 109078	3.9	3
451	Ultrathin-Layer Structure of BiOI Microspheres Decorated on N-Doped Biochar With Efficient Photocatalytic Activity. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 378	5	15

450	Photoenzymatic Hydroxylation of Ethylbenzene Catalyzed by Unspecific Peroxygenase: Origin of Enzyme Inactivation and the Impact of Light Intensity and Temperature. <i>ChemCatChem</i> , <b>2019</b> , 11, 3093-3100	5.3	20
449	Effect of the Degree of Inversion on the Photoelectrochemical Activity of Spinel ZnFe <sub>2</sub> O <sub>4</sub> . <i>Catalysts</i> , <b>2019</b> , 9, 434	4	9
448	Effect of the TiO <sub>2</sub> /ZnO Heterostructure on the Photoinduced Hydrophilic Conversion of TiO <sub>2</sub> and ZnO Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 8884-8891	3.8	14
447	Novel hybrid semiconducting lead and tin halide perovskites with saturated heterocyclic cations (CH <sub>2</sub> ) <sub>n</sub> PH <sub>2</sub> <sup>+</sup> and (CH <sub>2</sub> ) <sub>n</sub> SH <sup>+</sup> , (n=2-8): Ab initio study. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 229, 387-391	4.4	2
446	ZnO@ porous graphite nanocomposite from waste for superior photocatalytic activity. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 12288-12301	5.1	17
445	Photodegradation of Microcystin-LR Using Visible Light-Activated C/N-co-Modified Mesoporous TiO <sub>2</sub> Photocatalyst. <i>Materials</i> , <b>2019</b> , 12,	3.5	17
444	Two-Dimensional Layered Zinc Silicate Nanosheets with Excellent Photocatalytic Performance for Organic Pollutant Degradation and CO Conversion. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 8103-8108	16.4	45
443	Two-Dimensional Layered Zinc Silicate Nanosheets with Excellent Photocatalytic Performance for Organic Pollutant Degradation and CO <sub>2</sub> Conversion. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 8187-8192	3.6	0
442	Quantification of formaldehyde production during alkaline methanol electrooxidation. <i>Electrochemistry Communications</i> , <b>2019</b> , 102, 57-62	5.1	10
441	In-Situ Synthesis of Nb <sub>2</sub> O <sub>5</sub> /g-C <sub>3</sub> N <sub>4</sub> Heterostructures as Highly Efficient Photocatalysts for Molecular H <sub>2</sub> Evolution under Solar Illumination. <i>Catalysts</i> , <b>2019</b> , 9, 169	4	21
440	Photocatalytic properties of layer-by-layer thin films of hexaniobate nanoscrolls. <i>Catalysis Today</i> , <b>2019</b> , 326, 60-67	5.3	9
439	Elastic, phononic, magnetic and electronic properties of quasi-one-dimensional PbFeBO <sub>4</sub> . <i>Journal of Materials Science</i> , <b>2019</b> , 54, 13579-13593	4.3	1
438	TiO <sub>2</sub> nanoparticles with superior hydrogen evolution and pollutant degradation performance. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 24162-24173	6.7	8
437	Unraveling the photocatalytic properties of TiO <sub>2</sub> /WO <sub>3</sub> mixed oxides. <i>Photochemical and Photobiological Sciences</i> , <b>2019</b> , 18, 2469-2483	4.2	21
436	Preparation ultrafine L-Methionine (C,N,S triple doped)-TiO <sub>2</sub> -ZnO nanoparticles and their photocatalytic performance for fouling alleviation in PES nanocomposite membrane. <i>Composites Part B: Engineering</i> , <b>2019</b> , 176, 107158	10	24
435	Reaction Rate Study of the Photocatalytic Degradation of Dichloroacetic Acid in a Black Body Reactor. <i>Catalysts</i> , <b>2019</b> , 9, 635	4	5
434	Light-Induced Reactions of Chlorpromazine in the Presence of a Heterogeneous Photocatalyst: Formation of a Long-Lasting Sulfoxide. <i>Catalysts</i> , <b>2019</b> , 9, 627	4	5
433	Photodegradation of Herbicide Imazapyr and Phenol over Mesoporous Bicrystalline Phases TiO <sub>2</sub> : A Kinetic Study. <i>Catalysts</i> , <b>2019</b> , 9, 640	4	8

432	Mechanistic Investigations of Photoelectrochemical Water and Methanol Oxidation on Well-Defined TiO <sub>2</sub> Anatase (101) and Rutile (110) Surfaces. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5308-5318	6.1	9
431	Transmission IR cell for atmosphere-controlled studies of photoprocesses on powdered high surface area materials. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 105113	1.7	4
430	Visible-Light-Mediated Photocatalytic Aerobic Dehydrogenation of N-heterocycles by Surface-Grafted TiO <sub>2</sub> and 4-amino-TEMPO. <i>ACS Catalysis</i> , <b>2019</b> , 9, 10694-10704	13.1	35
429	Regarding the Nature of Charge Carriers Formed by UV or Visible Light Excitation of Carbon-Modified Titanium Dioxide. <i>Catalysts</i> , <b>2019</b> , 9, 697	4	5
428	Tailoring the Photoelectrochemical Activity of TiO <sub>2</sub> Electrodes by Multilayer Screen-Printing. <i>ChemCatChem</i> , <b>2019</b> , 11, 6439-6450	5.2	7
427	Dynamics of photoinduced bulk and surface reactions involving semiconductors characterized by time resolved spectroscopy techniques (2015-2018). <i>Photochemistry</i> , <b>2019</b> , 122-158	1.8	3
426	A novel L-Histidine (C, N) codoped-TiO-CdS nanocomposite for efficient visible photo-degradation of recalcitrant compounds from wastewater. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 369, 384-397	12.8	33
425	Influence of the preparation conditions on the morphology and photocatalytic performance Pt-modified hexaniobate composites. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 394001	1.8	5
424	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> , <b>2019</b> , 9, 877	4	7
423	Photoelectrochemical Behavior of the Ternary Heterostructured Systems CdS/WO <sub>3</sub> /TiO <sub>2</sub> . <i>Catalysts</i> , <b>2019</b> , 9, 999	4	7
422	Synthesis, characterization and photocatalytic activity of LaNdZr <sub>2</sub> O <sub>7</sub> supported SnSe nanocomposites for the degradation of Foron blue dye. <i>Applied Surface Science</i> , <b>2019</b> , 463, 1019-1027	6.7	18
421	Preparation and characterization of a novel photocatalytic self-cleaning PES nanofiltration membrane by embedding a visible-driven photocatalyst boron doped-TiO <sub>2</sub> SiO <sub>2</sub> /CoFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>Separation and Purification Technology</i> , <b>2019</b> , 209, 764-775	8.3	56
420	Photodegradation of 4-aminoantipyrine over nano-titania heterojunctions using solar and LED irradiation sources. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 102797	6.8	14
419	Modeling and Optimization of the Photocatalytic Reduction of Molecular Oxygen to Hydrogen Peroxide over Titanium Dioxide. <i>ACS Catalysis</i> , <b>2019</b> , 9, 25-37	13.1	58
418	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> , <b>2019</b> , 335, 354-364	5.3	11
417	Charge carrier trapping, recombination and transfer during TiO <sub>2</sub> photocatalysis: An overview. <i>Catalysis Today</i> , <b>2019</b> , 335, 78-90	5.3	199
416	Insights into Different Photocatalytic Oxidation Activities of Anatase, Brookite, and Rutile Single-Crystal Facets. <i>ACS Catalysis</i> , <b>2019</b> , 9, 1001-1012	13.1	27
415	Highly efficient solar light-assisted TiO <sub>2</sub> nanocrystalline for photodegradation of ibuprofen drug. <i>Optical Materials</i> , <b>2019</b> , 88, 117-127	3.3	36

414	Iron-based photocatalytic and photoelectrocatalytic nano-structures: Facts, perspectives, and expectations. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 244, 1065-1095	21.8	62
413	Nature and photoreactivity of TiO <sub>2</sub> -rGO nanocomposites in aqueous suspensions under UV-A irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 241, 375-384	21.8	30
412	Changes in the solid-state properties of bismuth iron oxide during the photocatalytic reformation of formic acid. <i>Catalysis Today</i> , <b>2019</b> , 326, 22-29	5.3	9
411	Photocatalytic reduction of Cr(VI) on hematite nanoparticles in the presence of oxalate and citrate. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 242, 218-226	21.8	87
410	Synthesis of visible light driven TiO <sub>2</sub> coated carbon nanospheres for degradation of dyes. <i>Arabian Journal of Chemistry</i> , <b>2019</b> , 12, 3534-3545	5.9	29
409	Kinetic and mechanistic features on the reaction of stored TiO <sub>2</sub> electrons with Hg (II), Pb (II) and Ni (II) in aqueous suspension. <i>Arabian Journal of Chemistry</i> , <b>2019</b> , 12, 5134-5141	5.9	10
408	Photocatalytic conversion of biomass into valuable products: a meaningful approach?. <i>Green Chemistry</i> , <b>2018</b> , 20, 1169-1192	10	108
407	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> , <b>2018</b> , 220, 50-53	3.3	10
406	Influence of inorganic additives on the photocatalytic removal of nitric oxide and on the charge carrier dynamics of TiO <sub>2</sub> powders. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 366, 142-151	4.7	3
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