

Adriana Zaleska-Medynska

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.

137
papers

6,572
citations

41
h-index

78
g-index

151
ext. papers

7,530
ext. citations

9
avg, IF

6.38
L-index

#	Paper	IF	Citations
137	The influence of ILs on TiO ₂ microspheres activity towards 5-FU removal under artificial sunlight irradiation. <i>Applied Surface Science</i> , 2022 , 573, 151431	6.7	0
136	Lead-free bismuth-based perovskites coupled with g-C ₃ N ₄ : A machine learning based novel approach for visible light induced degradation of pollutants. <i>Applied Surface Science</i> , 2022 , 588, 152921	6.7	0
135	A novel (Ti/Ce)UiO-X MOFs@TiO ₂ heterojunction for enhanced photocatalytic performance: Boosting via Ce ⁴⁺ /Ce ³⁺ and Ti ⁴⁺ /Ti ³⁺ redox mediators. <i>Applied Catalysis B: Environmental</i> , 2022 , 310, 121349	21.8	0
134	Nanostructured photocatalysts for the abatement of contaminants by photocatalysis and photocatalytic ozonation: An overview.. <i>Science of the Total Environment</i> , 2022 , 837, 155776	10.2	5
133	Metal Titanate (ATiO ₃ , A: Ni, Co, Mg, Zn) Nanorods for Toluene Photooxidation under LED Illumination. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10850	2.6	1
132	Insights into the Intrinsic Creation of Heterojunction-Based Ordered TiO ₂ Nanotubes Obtained from the One-Step Anodic Oxidation of Titanium Alloys. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7097-7108	3.8	1
131	Towards Computer-Aided Graphene Covered TiO ₂ -Cu/(Cu _x O _y) Composite Design for the Purpose of Photoinduced Hydrogen Evolution. <i>Catalysts</i> , 2021 , 11, 698	4	1
130	Betaine and l-carnitine ester bromides: Synthesis and comparative study of their thermal behaviour and surface activity. <i>Journal of Molecular Liquids</i> , 2021 , 334, 115988	6	1
129	Application of BiOCl _n Br _m photocatalyst to cytostatic drugs removal from water; mechanism and toxicity assessment. <i>Separation and Purification Technology</i> , 2021 , 254, 117601	8.3	6
128	Remarkable visible-light induced hydrogen generation with ZnIn ₂ S ₄ microspheres/CuInS ₂ quantum dots photocatalytic system. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 486-498	6.7	15
127	Systematic and detailed examination of NaYF ₄ -Er-Yb-TiO ₂ photocatalytic activity under Vis/NIR irradiation: Experimental and theoretical analyses. <i>Applied Surface Science</i> , 2021 , 536, 147805	6.7	7
126	Effect of synthesis method parameters on properties and photoelectrocatalytic activity under solar irradiation of TiO ₂ nanotubes decorated with CdS quantum dots. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104816	6.8	7
125	Stannates, titanates and tantalates modified with carbon and graphene quantum dots for enhancement of visible-light photocatalytic activity. <i>Applied Surface Science</i> , 2021 , 541, 148425	6.7	7
124	TiO ₂ nanotube catalysts for parabens mixture degradation by photocatalysis and ozone-based technologies. <i>Chemical Engineering Research and Design</i> , 2021 , 152, 601-613	5.5	8
123	Visible-light-driven lanthanide-organic-frameworks modified TiO ₂ photocatalysts utilizing up-conversion effect. <i>Applied Catalysis B: Environmental</i> , 2021 , 291, 120056	21.8	7
122	Thermal annealing of ordered TiO ₂ nanotube arrays with water vapor-assisted crystallization under a continuous gas flow for superior photocatalytic performance. <i>Chemical Engineering Journal</i> , 2021 , 425, 130619	14.7	1
121	Novel two-step synthesis method of thin film heterojunction of BiOBr/Bi ₂ WO ₆ with improved visible-light-driven photocatalytic activity. <i>Applied Surface Science</i> , 2021 , 569, 151082	6.7	4

120	How Do Ionic Liquids Affect the Surface Structure of Titania Photocatalyst? An Electron-Trap Distribution-Analysis Study. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 28143-28149	3.8	1
119	Theoretical and Experimental Studies on the Visible Light Activity of TiO ₂ Modified with Halide-Based Ionic Liquids. <i>Catalysts</i> , 2020 , 10, 371	4	4
118	Synergy between AgInS quantum dots and ZnO nanopyramids for photocatalytic hydrogen evolution and phenol degradation. <i>Journal of Hazardous Materials</i> , 2020 , 398, 123250	12.8	8
117	On the excitation mechanism of visible responsible Er-TiO ₂ system proved by experimental and theoretical investigations for boosting photocatalytic activity. <i>Applied Surface Science</i> , 2020 , 527, 146815	6.7	5
116	Modified Manganese Phosphate Conversion Coating on Low-Carbon Steel. <i>Materials</i> , 2020 , 13,	3.5	2
115	Unexpected effect of ozone on the parabenB mixture degradation using TiO supported nanotubes. <i>Science of the Total Environment</i> , 2020 , 743, 140831	10.2	7
114	How thermal stability of ionic liquids leads to more efficient TiO-based nanophotocatalysts: Theoretical and experimental studies. <i>Journal of Colloid and Interface Science</i> , 2020 , 572, 396-407	9.3	10
113	Urchin-like TiO ₂ structures decorated with lanthanide-doped Bi ₂ S ₃ quantum dots to boost hydrogen photogeneration performance. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118962	21.8	37
112	Integrated Experimental and Theoretical Approach for Efficient Design and Synthesis of Gold-Based Double Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26769-26779	3.8	4
111	Enhanced Visible Light Active WO Thin Films Toward Air Purification: Effect of the Synthesis Conditions. <i>Materials</i> , 2020 , 13,	3.5	5
110	The effect of Ag, Au, Pt, and Pd on the surface properties, photocatalytic activity and toxicity of multicomponent TiO ₂ -based nanomaterials. <i>Environmental Science: Nano</i> , 2020 , 7, 3557-3574	7.1	6
109	The Effect of AgInS ₂ , SnS, CuS ₂ , Bi ₂ S ₃ Quantum Dots on the Surface Properties and Photocatalytic Activity of QDs-Sensitized TiO ₂ Composite. <i>Catalysts</i> , 2020 , 10, 403	4	10
108	The effect of imidazolium ionic liquid on the morphology of Pt nanoparticles deposited on the surface of SrTiO ₃ and photoactivity of Pt/SrTiO ₃ composite in the H ₂ generation reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 26308-26321	6.7	10
107	Shape-controllable synthesis of GdVO photocatalysts and their tunable properties in photocatalytic hydrogen generation. <i>Dalton Transactions</i> , 2019 , 48, 1662-1671	4.3	11
106	A chemoinformatics approach for the characterization of hybrid nanomaterials: safer and efficient design perspective. <i>Nanoscale</i> , 2019 , 11, 11808-11818	7.7	18
105	Impact of Tetrazolium Ionic Liquid Thermal Decomposition in Solvothermal Reaction on the Remarkable Photocatalytic Properties of TiO Particles. <i>Nanomaterials</i> , 2019 , 9,	5.4	4
104	Experimental and theoretical investigations of the influence of carbon on a Ho-TiO photocatalyst with Vis response. <i>Journal of Colloid and Interface Science</i> , 2019 , 549, 212-224	9.3	12
103	Removal of 5-fluorouracil by solar-driven photoelectrocatalytic oxidation using Ti/TiO(NT) photoelectrodes. <i>Water Research</i> , 2019 , 157, 610-620	12.5	33

102	Experimental and computational study of Tm-doped TiO ₂ : The effect of Li ⁺ on Vis-response photocatalysis and luminescence. <i>Applied Catalysis B: Environmental</i> , 2019 , 252, 138-151	21.8	18
101	Ordered TiO ₂ Nanotubes with Improved Photoactivity through Self-organizing Anodization with the Addition of an Ionic Liquid: Effects of the Preparation Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15585-15596	8.3	1
100	The Effect of the Metal Type on Luminescence and Photocatalytic Properties of Lanthanide-Organic Frameworks Modified Titania. <i>Proceedings (mdpi)</i> , 2019 , 16, 11	0.3	1
99	TiO nanotube arrays-based reactor for photocatalytic oxidation of parabens mixtures in ultrapure water: Effects of photocatalyst properties, operational parameters and light source. <i>Science of the Total Environment</i> , 2019 , 689, 79-89	10.2	18
98	Fabrication of Durable Ordered TaO Nanotube Arrays Decorated with BiS Quantum Dots. <i>Nanomaterials</i> , 2019 , 9,	5.4	6
97	Impact of gold nanoparticles shape on their cytotoxicity against human osteoblast and osteosarcoma in in vitro model. Evaluation of the safety of use and anti-cancer potential. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 30, 22	4.5	70
96	Shape-Depended Biological Properties of AgPO Microparticles: Evaluation of Antimicrobial Properties and Cytotoxicity in Model-Safety Assessment of Potential Clinical Usage. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 6740325	6.7	8
95	Optical and photocatalytic properties of rare earth metal-modified ZnO quantum dots. <i>Applied Surface Science</i> , 2019 , 464, 651-663	6.7	46
94	A new simple approach to prepare rare-earth metals-modified TiO ₂ nanotube arrays photoactive under visible light: Surface properties and mechanism investigation. <i>Results in Physics</i> , 2019 , 12, 412-423	3.7	18
93	Quantum dot-decorated semiconductor micro- and nanoparticles: A review of their synthesis, characterization and application in photocatalysis. <i>Advances in Colloid and Interface Science</i> , 2018 , 256, 352-372	14.3	90
92	Nano-QSAR modeling for ecosafe design of heterogeneous TiO ₂ -based nano-photocatalysts. <i>Environmental Science: Nano</i> , 2018 , 5, 1150-1160	7.1	30
91	The role of lanthanides in TiO ₂ -based photocatalysis: A review. <i>Applied Catalysis B: Environmental</i> , 2018 , 233, 301-317	21.8	99
90	Retraction notice to "Mechanism of phenol photodegradation in the presence of pure and modified-TiO ₂ : A review" [Water Res. 46/17 (2012) 5453-5471]. <i>Water Research</i> , 2018 , 135, 331	12.5	2
89	Design, Synthesis, and Enzymatic Evaluation of Novel ZnO Quantum Dot-Based Assay for Detection of Proteinase 3 Activity. <i>Bioconjugate Chemistry</i> , 2018 , 29, 1576-1583	6.3	5
88	Mono- and bimetallic nanoparticles decorated KTaO ₃ photocatalysts with improved Vis and UV _{vis} light activity. <i>Applied Surface Science</i> , 2018 , 441, 993-1011	6.7	15
87	Dependence between Ionic Liquid Structure and Mechanism of Visible-Light-Induced Activity of TiO ₂ Obtained by Ionic-Liquid-Assisted Solvothermal Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3927-3937	8.3	18
86	Visible light photocatalysis employing TiO ₂ /SrTiO ₃ -BiOI composites: Surface properties and photoexcitation mechanism. <i>Molecular Catalysis</i> , 2018 , 452, 154-166	3.3	14
85	Rare earth ions doped K ₂ Ta ₂ O ₆ photocatalysts with enhanced UV _{vis} light activity. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 451-468	21.8	26

84	Monometallic nanoparticles decorated and rare earth ions doped KTaO ₃ /K ₂ Ta ₂ O ₆ photocatalysts with enhanced pollutant decomposition and improved H ₂ generation. <i>Journal of Catalysis</i> , 2018 , 364, 371-381	7.3	16
83	Highly Active TiO ₂ Microspheres Formation in the Presence of Ethylammonium Nitrate Ionic Liquid. <i>Catalysts</i> , 2018 , 8, 279	4	8
82	Shape-dependent enhanced photocatalytic effect under visible light of Ag ₃ PO ₄ particles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 367, 240-252	4.7	27
81	Copper-Modified TiO and ZrTiO: Cu Oxidation State Evolution during Photocatalytic Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27745-27756	9.5	32
80	Electrochemically Obtained TiO ₂ /Cu _x O _y Nanotube Arrays Presenting a Photocatalytic Response in Processes of Pollutants Degradation and Bacteria Inactivation in Aqueous Phase. <i>Catalysts</i> , 2018 , 8, 2374	4	9
79	Effect of Noble Metals (Ag, Pd, Pt) Loading over the Efficiency of TiO ₂ during Photocatalytic Ozonation on the Toxicity of Parabens. <i>ChemEngineering</i> , 2018 , 2, 4	2.6	29
78	Influence of the preparation method on the photocatalytic activity of Nd-modified TiO. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 447-459	3	24
77	Fundamentals of metal oxide-based photocatalysis 2018 , 3-50		3
76	TiO ₂ CoxOy composite nanotube arrays via one step electrochemical anodization for visible light-induced photocatalytic reaction. <i>Surfaces and Interfaces</i> , 2018 , 12, 179-189	4.1	7
75	Metal oxide photocatalysts 2018 , 51-209		9
74	Application of metal oxide-based photocatalysis 2018 , 211-340		5
73	Studies on novel Bi _y X _z -TiO ₂ /SrTiO ₃ composites: Surface properties and visible light-driven photoactivity. <i>Applied Surface Science</i> , 2018 , 435, 1174-1186	6.7	8
72	Preparation of CdS and BiS quantum dots co-decorated perovskite-type KNbO ternary heterostructure with improved visible light photocatalytic activity and stability for phenol degradation. <i>Dalton Transactions</i> , 2018 , 47, 15232-15245	4.3	29
71	Manganese Phosphatizing Coatings: The Effects of Preparation Conditions on Surface Properties. <i>Materials</i> , 2018 , 11,	3.5	18
70	Facile Formation of Self-Organized TiO ₂ Nanotubes in Electrolyte Containing Ionic Liquid-Ethylammonium Nitrate and Their Remarkable Photocatalytic Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14510-14522	8.3	5
69	TiO ₂ and NaTaO ₃ Decorated by Trimetallic Au/Pd/Pt Core/Shell Nanoparticles as Efficient Photocatalysts: Experimental and Computational Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16665-16682	8.3	29
68	Fabrication and photoactivity of ionic liquid-TiO structures for efficient visible-light-induced photocatalytic decomposition of organic pollutants in aqueous phase. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 580-590	3	14
67	Photoactivity of decahedral TiO ₂ loaded with bimetallic nanoparticles: Degradation pathway of phenol-1-13C and hydroxyl radical formation. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 56-71	21.8	56

66	Photocatalytically Active TiO ₂ /Ag ₂ O Nanotube Arrays Interlaced with Silver Nanoparticles Obtained from the One-Step Anodic Oxidation of Ti/Ag Alloys. <i>ACS Catalysis</i> , 2017 , 7, 2753-2764	13.1	60
65	The effect of microemulsion composition on the morphology of Pd nanoparticles deposited at the surface of TiO ₂ and photoactivity of Pd-TiO ₂ . <i>Applied Surface Science</i> , 2017 , 405, 220-230	6.7	19
64	Novel decahedral TiO ₂ photocatalysts modified with Ru or Rh NPs: Insight into the mechanism. <i>Molecular Catalysis</i> , 2017 , 434, 154-166	3.3	16
63	Size and shape-dependent cytotoxicity profile of gold nanoparticles for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 92	4.5	99
62	Detoxification of parabens using UV-A enhanced by noble metals/TiO ₂ supported catalysts. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 3065-3074	6.8	47
61	Enhanced photocatalytic properties of lanthanide-TiO ₂ nanotubes: An experimental and theoretical study. <i>Applied Catalysis B: Environmental</i> , 2017 , 205, 376-385	21.8	64
60	The effect of metals content on the photocatalytic activity of TiO ₂ modified by Pt/Au bimetallic nanoparticles prepared by sol-gel method. <i>Molecular Catalysis</i> , 2017 , 442, 154-163	3.3	31
59	Preparation and photocatalytic properties of BaZrO ₃ and SrZrO ₃ modified with Cu ₂ O/Bi ₂ O ₃ quantum dots. <i>Solid State Sciences</i> , 2017 , 74, 13-23	3.4	14
58	Evaluating the toxicity of TiO ₂ -based nanoparticles to Chinese hamster ovary cells and a complementary experimental and computational approach. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 2171-2180	3	25
57	Highly Visible-Light-Photoactive Heterojunction Based on TiO ₂ Nanotubes Decorated by Pt Nanoparticles and Bi ₂ S ₃ Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17215-17225	3.8	23
56	Visible-Light Photocatalytic Activity of Ionic Liquid TiO ₂ Spheres: Effect of the Ionic Liquid Anion Structure. <i>ChemCatChem</i> , 2017 , 9, 4377-4388	5.2	14
55	Noble metal/TiO ₂ supported catalysts for the catalytic ozonation of parabens mixtures. <i>Chemical Engineering Research and Design</i> , 2017 , 111, 148-159	5.5	30
54	The effects of bifunctional linker and reflux time on the surface properties and photocatalytic activity of CdTe quantum dots decorated KTaO ₃ composite photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 452-464	21.8	39
53	Effect of irradiation intensity and initial pollutant concentration on gas phase photocatalytic activity of TiO ₂ nanotube arrays. <i>Catalysis Today</i> , 2017 , 284, 19-26	5.3	39
52	Growth, Structure, and Photocatalytic Properties of Hierarchical V ₂ O ₅ /TiO ₂ Nanotube Arrays Obtained from the One-step Anodic Oxidation of Ti-V Alloys. <i>Molecules</i> , 2017 , 22,	4.8	21
51	Self-Organized TiO ₂ /MnO ₂ Nanotube Arrays for Efficient Photocatalytic Degradation of Toluene. <i>Molecules</i> , 2017 , 22,	4.8	34
50	Ionic liquids for nano- and microstructures preparation. Part 1: Properties and multifunctional role. <i>Advances in Colloid and Interface Science</i> , 2016 , 230, 13-28	14.3	81
49	Photocatalytic activity and luminescence properties of RE ₃ +TiO ₂ nanocrystals prepared by sol-gel and hydrothermal methods. <i>Applied Catalysis B: Environmental</i> , 2016 , 181, 825-837	21.8	84

48	Ionic liquids for nano- and microstructures preparation. Part 2: Application in synthesis. <i>Advances in Colloid and Interface Science</i> , 2016 , 227, 1-52	14.3	58
47	Enhanced photocatalytic, electrochemical and photoelectrochemical properties of TiO nanotubes arrays modified with Cu, AgCu and Bi nanoparticles obtained via radiolytic reduction. <i>Applied Surface Science</i> , 2016 , 387, 89-102	6.7	90
46	The ILs-assisted solvothermal synthesis of TiO ₂ spheres: The effect of ionic liquids on morphology and photoactivity of TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2016 , 184, 223-237	21.8	49
45	Nanoporous TiO ₂ electrode grown by laser ablation of titanium in air at atmospheric pressure and room temperature. <i>Thin Solid Films</i> , 2016 , 601, 41-44	2.2	11
44	Photoreactor Design Aspects and Modeling of Light. <i>Green Chemistry and Sustainable Technology</i> , 2016 , 211-248	1.1	5
43	Noble metal-based bimetallic nanoparticles: the effect of the structure on the optical, catalytic and photocatalytic properties. <i>Advances in Colloid and Interface Science</i> , 2016 , 229, 80-107	14.3	296
42	The Antibacterial and Antifungal Textile Properties Functionalized by Bimetallic Nanoparticles of Ag/Cu with Different Structures. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-13	3.2	23
41	Synthesis and Characterization of Monometallic (Ag, Cu) and Bimetallic Ag-Cu Particles for Antibacterial and Antifungal Applications. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-11	3.2	30
40	The effect of metal cluster deposition route on structure and photocatalytic activity of mono- and bimetallic nanoparticles supported on TiO ₂ by radiolytic method. <i>Applied Surface Science</i> , 2016 , 378, 37-48	6.7	54
39	Photocatalytic activity of nitrogen doped TiO ₂ nanotubes prepared by anodic oxidation: The effect of applied voltage, anodization time and amount of nitrogen dopant. <i>Applied Catalysis B: Environmental</i> , 2016 , 196, 77-88	21.8	83
38	The effect of gold shape and size on the properties and visible light-induced photoactivity of Au-TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2016 , 196, 27-40	21.8	70
37	Combined experimental and computational approach to developing efficient photocatalysts based on Au/Pd/TiO ₂ nanoparticles. <i>Environmental Science: Nano</i> , 2016 , 3, 1425-1435	7.1	26
36	Transport properties of aqueous ionic liquid microemulsions: influence of the anion type and presence of the cosurfactant. <i>Soft Matter</i> , 2015 , 11, 8992-9008	3.6	14
35	KTaO ₃ -based nanocomposites for air treatment. <i>Catalysis Today</i> , 2015 , 252, 47-53	5.3	30
34	Visible light activity of rare earth metal doped (Er ³⁺ , Yb ³⁺ or Er ³⁺ /Yb ³⁺) titania photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2015 , 163, 40-49	21.8	256
33	Methane formation over TiO ₂ -based photocatalysts: Reaction pathways. <i>Applied Catalysis B: Environmental</i> , 2015 , 164, 433-442	21.8	37
32	Synthesis, characterization and photocatalytic activity of noble metal-modified TiO ₂ nanosheets with exposed {0 0 1} facets. <i>Applied Surface Science</i> , 2015 , 347, 275-285	6.7	66
31	Micelle formation of Tween 20 nonionic surfactant in imidazolium ionic liquids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 471, 26-37	5.1	31

30	The effect of calcination temperature on structure and photocatalytic properties of Au/Pd nanoparticles supported on TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2014 , 152-153, 202-211	21.8	104
29	Lanthanide co-doped TiO ₂ : The effect of metal type and amount on surface properties and photocatalytic activity. <i>Applied Surface Science</i> , 2014 , 307, 333-345	6.7	115
28	Studies on formation and percolation in ionic liquids/TX-100/water microemulsions. <i>Journal of Molecular Liquids</i> , 2014 , 199, 552-558	6	14
27	Visible light photoactivity of TiO ₂ loaded with monometallic (Au or Pt) and bimetallic (Au/Pt) nanoparticles. <i>Applied Surface Science</i> , 2014 , 317, 1131-1142	6.7	48
26	Three-dimensional titanium dioxide nanomaterials. <i>Chemical Reviews</i> , 2014 , 114, 9487-558	68.1	295
25	The Photocatalytic Conversion of (Biodiesel Derived) Glycerol to Hydrogen - A Short Review and Preliminary Experimental Results Part 2: Photocatalytic Conversion of Glycerol to Hydrogen in Batch and Semi-batch Laboratory Reactors. <i>Journal of Advanced Oxidation Technologies</i> , 2014 , 17,		3
24	Preparation and Characterization of Au/Pd Modified-TiO ₂ Photocatalysts for Phenol and Toluene Degradation under Visible Light The Effect of Calcination Temperature. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-9	3.2	21
23	Surface properties and photocatalytic activity of KTaO ₃ , CdS, MoS ₂ semiconductors and their binary and ternary semiconductor composites. <i>Molecules</i> , 2014 , 19, 15339-60	4.8	26
22	Ordered TiO ₂ nanotubes: The effect of preparation parameters on the photocatalytic activity in air purification process. <i>Applied Catalysis B: Environmental</i> , 2014 , 144, 674-685	21.8	93
21	Ag/Pt-modified TiO ₂ nanoparticles for toluene photooxidation in the gas phase. <i>Catalysis Today</i> , 2014 , 230, 104-111	5.3	46
20	Photocatalysts for Solar Energy Conversion 2013 , 63-102		1
19	Solubilization of benzene, toluene, and xylene (BTX) in aqueous micellar solutions of amphiphilic imidazolium ionic liquids. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 5653-8	3.4	57
18	Mechanism of phenol photodegradation in the presence of pure and modified-TiO ₂ : A review. <i>Water Research</i> , 2012 , 46, 5453-5471	12.5	271
17	Surface properties and visible light activity of W-TiO ₂ photocatalysts prepared by surface impregnation and sol-gel method. <i>Applied Catalysis B: Environmental</i> , 2012 , 117-118, 351-359	21.8	40
16	Preparation and characterization of monometallic (Au) and bimetallic (Ag/Au) modified-titania photocatalysts activated by visible light. <i>Applied Catalysis B: Environmental</i> , 2011 , 101, 504-514	21.8	185
15	Photocatalytic Air Purification. <i>Recent Patents on Engineering</i> , 2010 , 4, 200-216	0.3	13
14	Editorial [Hot Topic: Light-Driven Reactions and Materials in the Environmental Technology (Guest Editor: Adriana Zaleska)]. <i>Recent Patents on Engineering</i> , 2010 , 4, 147-148	0.3	
13	Silver-doped TiO ₂ prepared by microemulsion method: Surface properties, bio- and photoactivity. <i>Separation and Purification Technology</i> , 2010 , 72, 309-318	8.3	149

12	Preparation of silver nanoparticles with controlled particle size. <i>Procedia Chemistry</i> , 2009 , 1, 1560-1566		191
11	Photodegradation of phenol by UV/TiO ₂ and Vis/N,C-TiO ₂ processes: Comparative mechanistic and kinetic studies. <i>Separation and Purification Technology</i> , 2009 , 68, 90-96	8.3	60
10	Photocatalytic activity of boron-modified TiO ₂ under visible light: The effect of boron content, calcination temperature and TiO ₂ matrix. <i>Applied Catalysis B: Environmental</i> , 2009 , 89, 469-475	21.8	95
9	Doped-TiO ₂ : A Review. <i>Recent Patents on Engineering</i> , 2008 , 2, 157-164	0.3	697
8	Self-organization of imidazolium ionic liquids in aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 329, 125-133	5.1	307
7	Preparation and photocatalytic activity of boron-modified TiO ₂ under UV and visible light. <i>Applied Catalysis B: Environmental</i> , 2008 , 78, 92-100	21.8	198
6	TiO ₂ photoactivity in vis and UV light: The influence of calcination temperature and surface properties. <i>Applied Catalysis B: Environmental</i> , 2008 , 84, 440-447	21.8	152
5	Thioacetamide and thiourea impact on visible light activity of TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2007 , 76, 1-8	21.8	53
4	Comparison of different advanced oxidation processes for the degradation of room temperature ionic liquids. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005 , 170, 45-50	4.7	152
3	Photo-oxidation of dissolved cyanide using TiO ₂ catalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002 , 151, 201-205	4.7	25
2	Photocatalytic degradation of lindane, p,p'-DDT and methoxychlor in an aqueous environment. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000 , 135, 213-220	4.7	67
1	Problem of disposal of unwanted pesticides deposited in concrete tombs. <i>Waste Management and Research</i> , 1999 , 17, 220-227	4	3