

Adriana Zaleska-Medynska

List of Publications by Year in descending order

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144
papers

8,518
citations

46918

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48187

88
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151
all docs

151
docs citations

151
times ranked

11057
citing authors

#	ARTICLE	IF	CITATIONS
1	Doped-TiO ₂ : A Review. Recent Patents on Engineering, 2008, 2, 157-164.	0.3	855
2	Noble metal-based bimetallic nanoparticles: the effect of the structure on the optical, catalytic and photocatalytic properties. Advances in Colloid and Interface Science, 2016, 229, 80-107.	7.0	397
3	Three-Dimensional Titanium Dioxide Nanomaterials. Chemical Reviews, 2014, 114, 9487-9558.	23.0	349
4	Self-organization of imidazolium ionic liquids in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 329, 125-133.	2.3	342
5	Visible light activity of rare earth metal doped (Er ³⁺ , Yb ³⁺ or Er ³⁺ /Yb ³⁺) titania photocatalysts. Applied Catalysis B: Environmental, 2015, 163, 40-49.	10.8	295
6	Preparation of silver nanoparticles with controlled particle size. Procedia Chemistry, 2009, 1, 1560-1566.	0.7	243
7	Preparation and photocatalytic activity of boron-modified TiO ₂ under UV and visible light. Applied Catalysis B: Environmental, 2008, 78, 92-100.	10.8	214
8	Preparation and characterization of monometallic (Au) and bimetallic (Ag/Au) modified-titania photocatalysts activated by visible light. Applied Catalysis B: Environmental, 2011, 101, 504-514.	10.8	205
9	Comparison of different advanced oxidation processes for the degradation of room temperature ionic liquids. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 170, 45-50.	2.0	182
10	TiO ₂ photoactivity in vis and UV light: The influence of calcination temperature and surface properties. Applied Catalysis B: Environmental, 2008, 84, 440-447.	10.8	176
11	Silver-doped TiO ₂ prepared by microemulsion method: Surface properties, bio- and photoactivity. Separation and Purification Technology, 2010, 72, 309-318.	3.9	174
12	Size and shape-dependent cytotoxicity profile of gold nanoparticles for biomedical applications. Journal of Materials Science: Materials in Medicine, 2017, 28, 92.	1.7	147
13	The role of lanthanides in TiO ₂ -based photocatalysis: A review. Applied Catalysis B: Environmental, 2018, 233, 301-317.	10.8	146
14	Lanthanide co-doped TiO ₂ : The effect of metal type and amount on surface properties and photocatalytic activity. Applied Surface Science, 2014, 307, 333-345.	3.1	139
15	Quantum dot-decorated semiconductor micro- and nanoparticles: A review of their synthesis, characterization and application in photocatalysis. Advances in Colloid and Interface Science, 2018, 256, 352-372.	7.0	129
16	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. Journal of Materials Science: Materials in Medicine, 2019, 30, 22.	1.7	127
17	The effect of calcination temperature on structure and photocatalytic properties of Au/Pd nanoparticles supported on TiO ₂ . Applied Catalysis B: Environmental, 2014, 152-153, 202-211.	10.8	120
18	Ordered TiO ₂ nanotubes: The effect of preparation parameters on the photocatalytic activity in air purification process. Applied Catalysis B: Environmental, 2014, 144, 674-685.	10.8	110

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19	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.	10.8	110
20	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.	10.8	106
21	Enhanced photocatalytic, electrochemical and photoelectrochemical properties of TiO ₂ nanotubes arrays modified with Cu, AgCu and Bi nanoparticles obtained via radiolytic reduction. <i>Applied Surface Science</i> , 2016, 387, 89-102.	3.1	106
22	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.	10.8	101
23	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.	7.0	100
24	Enhanced photocatalytic properties of lanthanide-TiO ₂ nanotubes: An experimental and theoretical study. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 376-385.	10.8	87
25	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.	2.0	83
26	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.	10.8	83
27	Ionic liquids for nano- and microstructures preparation. Part 2: Application in synthesis. <i>Advances in Colloid and Interface Science</i> , 2016, 227, 1-52.	7.0	77
28	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.	5.5	76
29	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.	3.1	75
30	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.	10.8	68
31	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.	3.1	66
32	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.	10.8	65
33	Optical and photocatalytic properties of rare earth metal-modified ZnO quantum dots. <i>Applied Surface Science</i> , 2019, 464, 651-663.	3.1	64
34	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.	3.1	61
35	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.	3.9	60
36	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, 5653-5658.	1.2	58

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37	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.	10.8	58
38	Thioacetamide and thiourea impact on visible light activity of TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2007, 76, 1-8.	10.8	56
39	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.	3.3	52
40	Removal of 5-fluorouracil by solar-driven photoelectrocatalytic oxidation using Ti/TiO ₂ (NT) photoelectrodes. <i>Water Research</i> , 2019, 157, 610-620.	5.3	52
41	Ag/Pt-modified TiO ₂ nanoparticles for toluene photooxidation in the gas phase. <i>Catalysis Today</i> , 2014, 230, 104-111.	2.2	51
42	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.	1.5	51
43	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.	2.2	51
44	Nano-QSAR modeling for ecosafe design of heterogeneous TiO ₂ -based nano-photocatalysts. <i>Environmental Science: Nano</i> , 2018, 5, 1150-1160.	2.2	51
45	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.	10.8	50
46	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.	10.8	49
47	Methane formation over TiO ₂ -based photocatalysts: Reaction pathways. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 433-442.	10.8	48
48	Copper-Modified TiO ₂ and ZrTiO ₄ : Cu Oxidation State Evolution during Photocatalytic Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27745-27756.	4.0	47
49	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.	10.8	46
50	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.	3.8	44
51	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.	1.0	43
52	Self-Organized TiO ₂ @MnO ₂ Nanotube Arrays for Efficient Photocatalytic Degradation of Toluene. <i>Molecules</i> , 2017, 22, 564.	1.7	43
53	Preparation of CdS and Bi ₂ S ₃ quantum dots co-decorated perovskite-type KNbO ₃ ternary heterostructure with improved visible light photocatalytic activity and stability for phenol degradation. <i>Dalton Transactions</i> , 2018, 47, 15232-15245.	1.6	42
54	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.	1.5	39

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55	Noble metalâ€“TiO ₂ supported catalysts for the catalytic ozonation of parabens mixtures. <i>Chemical Engineering Research and Design</i> , 2017, 111, 148-159.	2.7	39
56	TiO ₂ and NaTaO ₃ Decorated by Trimetallic Au/Pd/Pt Coreâ€“Shell Nanoparticles as Efficient Photocatalysts: Experimental and Computational Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16665-16682.	3.2	38
57	Surface Properties and Photocatalytic Activity of KTaO ₃ , CdS, MoS ₂ Semiconductors and Their Binary and Ternary Semiconductor Composites. <i>Molecules</i> , 2014, 19, 15339-15360.	1.7	35
58	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.	2.3	35
59	A cheminformatics approach for the characterization of hybrid nanomaterials: safer and efficient design perspective. <i>Nanoscale</i> , 2019, 11, 11808-11818.	2.8	35
60	Visible-light-driven lanthanide-organic-frameworks modified TiO ₂ photocatalysts utilizing up-conversion effect. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120056.	10.8	35
61	KTaO ₃ -based nanocomposites for air treatment. <i>Catalysis Today</i> , 2015, 252, 47-53.	2.2	34
62	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.	1.0	34
63	Influence of the preparation method on the photocatalytic activity of Nd-modified TiO ₂ . <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 447-459.	1.5	34
64	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.	2.0	33
65	Growth, Structure, and Photocatalytic Properties of Hierarchical V ₂ O ₅ â€“TiO ₂ Nanotube Arrays Obtained from the One-step Anodic Oxidation of Tiâ€“V Alloys. <i>Molecules</i> , 2017, 22, 580.	1.7	31
66	Photo-oxidation of dissolved cyanide using TiO ₂ catalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 151, 201-205.	2.0	30
67	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.	1.5	30
68	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.	2.0	30
69	Combined experimental and computational approach to developing efficient photocatalysts based on Au/Pdâ€“TiO ₂ nanoparticles. <i>Environmental Science: Nano</i> , 2016, 3, 1425-1435.	2.2	29
70	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.	1.5	29
71	Evaluating the toxicity of TiO ₂ -based nanoparticles to Chinese hamster ovary cells and <i>Escherichia coli</i> : a complementary experimental and computational approach. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 2171-2180.	1.5	29
72	Manganese Phosphatizing Coatings: The Effects of Preparation Conditions on Surface Properties. <i>Materials</i> , 2018, 11, 2585.	1.3	29

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73	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.	3.1	29
74	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.	10.8	28
75	Nanostructured photocatalysts for the abatement of contaminants by photocatalysis and photocatalytic ozonation: An overview. <i>Science of the Total Environment</i> , 2022, 837, 155776.	3.9	28
76	TiO ₂ 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.	3.9	27
77	Mono- and bimetallic nanoparticles decorated KTaO ₃ photocatalysts with improved Vis and UVâ€“Vis light activity. <i>Applied Surface Science</i> , 2018, 441, 993-1011.	3.1	26
78	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.	10.8	25
79	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.	2.7	25
80	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.	3.1	24
81	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.	3.1	23
82	Preparation and Characterization of Au/Pd Modified-TiO ₂ Photocatalysts for Phenol and Toluene Degradation under Visible Lightâ€”The Effect of Calcination Temperature. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-9.	1.5	22
83	Synergy between AgInS ₂ quantum dots and ZnO nanopyramids for photocatalytic hydrogen evolution and phenol degradation. <i>Journal of Hazardous Materials</i> , 2020, 398, 123250.	6.5	22
84	Visibleâ€“Light Photocatalytic Activity of Ionic Liquid TiO ₂ Spheres: Effect of the Ionic Liquid's Anion Structure. <i>ChemCatChem</i> , 2017, 9, 4377-4388.	1.8	21
85	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.	3.2	21
86	Shape-controllable synthesis of GdVO ₄ photocatalysts and their tunable properties in photocatalytic hydrogen generation. <i>Dalton Transactions</i> , 2019, 48, 1662-1671.	1.6	20
87	Novel decahedral TiO ₂ photocatalysts modified with Ru or Rh NPs: Insight into the mechanism. <i>Molecular Catalysis</i> , 2017, 434, 154-166.	1.0	19
88	Metal oxide photocatalysts. , 2018, , 51-209.		19
89	Photocatalytic Air Purification. <i>Recent Patents on Engineering</i> , 2010, 4, 200-216.	0.3	18
90	Visible light photocatalysis employing TiO ₂ /SrTiO ₃ -BiOI composites: Surface properties and photoexcitation mechanism. <i>Molecular Catalysis</i> , 2018, 452, 154-166.	1.0	18

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91	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.	3.8	18
92	Experimental and theoretical investigations of the influence of carbon on a Ho ³⁺ -TiO ₂ photocatalyst with Vis response. <i>Journal of Colloid and Interface Science</i> , 2019, 549, 212-224.	5.0	18
93	Shape-Depended Biological Properties of Ag ₃ PO ₄ Microparticles: Evaluation of Antimicrobial Properties and Cytotoxicity in <i>In Vitro</i> Model – Safety Assessment of Potential Clinical Usage. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-19.	1.9	18
94	Fabrication and photoactivity of ionic liquid@TiO ₂ structures for efficient visible-light-induced photocatalytic decomposition of organic pollutants in aqueous phase. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 580-590.	1.5	17
95	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.	2.2	17
96	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.	1.2	16
97	Studies on novel BiYxZ-TiO ₂ /SrTiO ₃ composites: Surface properties and visible light-driven photoactivity. <i>Applied Surface Science</i> , 2018, 435, 1174-1186.	3.1	16
98	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, 237.	1.6	16
99	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.	3.1	16
100	Studies on formation and percolation in ionic liquids/TX-100/water microemulsions. <i>Journal of Molecular Liquids</i> , 2014, 199, 552-558.	2.3	15
101	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.	0.8	14
102	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.	3.1	14
103	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.	3.1	14
104	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.	3.3	14
105	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.	2.3	14
106	Application of metal oxide-based photocatalysis. , 2018, , 211-340.		13
107	Unexpected effect of ozone on the paraben's mixture degradation using TiO ₂ supported nanotubes. <i>Science of the Total Environment</i> , 2020, 743, 140831.	3.9	13
108	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.	1.6	13

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109	Application of BiOCl _n Br _m photocatalyst to cytostatic drugs removal from water; mechanism and toxicity assessment. Separation and Purification Technology, 2021, 254, 117601.	3.9	13
110	Lead-free bismuth-based perovskites coupled with gâ€“C ₃ N ₄ : A machine learning based novel approach for visible light induced degradation of pollutants. Applied Surface Science, 2022, 588, 152921.	3.1	13
111	Design, Synthesis, and Enzymatic Evaluation of Novel ZnO Quantum Dot-Based Assay for Detection of Proteinase 3 Activity. Bioconjugate Chemistry, 2018, 29, 1576-1583.	1.8	10
112	Highly Active TiO ₂ Microspheres Formation in the Presence of Ethylammonium Nitrate Ionic Liquid. Catalysts, 2018, 8, 279.	1.6	10
113	TiO ₂ CoxOy composite nanotube arrays via one step electrochemical anodization for visible lightâ€“induced photocatalytic reaction. Surfaces and Interfaces, 2018, 12, 179-189.	1.5	10
114	Integrated Experimental and Theoretical Approach for Efficient Design and Synthesis of Gold-Based Double Halide Perovskites. Journal of Physical Chemistry C, 2020, 124, 26769-26779.	1.5	10
115	How thermal stability of ionic liquids leads to more efficient TiO ₂ -based nanophotocatalysts: Theoretical and experimental studies. Journal of Colloid and Interface Science, 2020, 572, 396-407.	5.0	10
116	Lanthanide-organic-frameworks modified ZnIn ₂ S ₄ for boosting hydrogen generation under UVâ€“Vis and visible light. International Journal of Hydrogen Energy, 2022, 47, 16065-16079.	3.8	10
117	Facile Formation of Self-Organized TiO ₂ Nanotubes in Electrolyte Containing Ionic Liquid-Ethylammonium Nitrate and Their Remarkable Photocatalytic Properties. ACS Sustainable Chemistry and Engineering, 2018, 6, 14510-14522.	3.2	9
118	Fabrication of Durable Ordered Ta ₂ O ₅ Nanotube Arrays Decorated with Bi ₂ S ₃ Quantum Dots. Nanomaterials, 2019, 9, 1347.	1.9	9
119	Enhanced Visible Light Active WO ₃ Thin Films Toward Air Purification: Effect of the Synthesis Conditions. Materials, 2020, 13, 3506.	1.3	9
120	Metal Titanate (ATiO ₃ , A: Ni, Co, Mg, Zn) Nanorods for Toluene Photooxidation under LED Illumination. Applied Sciences (Switzerland), 2021, 11, 10850.	1.3	9
121	Ordered TiO ₂ Nanotubes with Improved Photoactivity through Self-organizing Anodization with the Addition of an Ionic Liquid: Effects of the Preparation Conditions. ACS Sustainable Chemistry and Engineering, 2019, 7, 15585-15596.	3.2	8
122	Thermal annealing of ordered TiO ₂ nanotube arrays with water vapor-assisted crystallization under a continuous gas flow for superior photocatalytic performance. Chemical Engineering Journal, 2021, 425, 130619.	6.6	8
123	How Do Ionic Liquids Affect the Surface Structure of Titania Photocatalyst? An Electron-Trap Distribution-Analysis Study. Journal of Physical Chemistry C, 2021, 125, 28143-28149.	1.5	7
124	Photoreactor Design Aspects and Modeling of Light. Green Chemistry and Sustainable Technology, 2016, , 211-248.	0.4	6
125	Theoretical and Experimental Studies on the Visible Light Activity of TiO ₂ Modified with Halide-Based Ionic Liquids. Catalysts, 2020, 10, 371.	1.6	6
126	Modified Manganese Phosphate Conversion Coating on Low-Carbon Steel. Materials, 2020, 13, 1416.	1.3	6

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127	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.	1.5	6
128	Hydrogen detection during photocatalytic water splitting: A tutorial. <i>International Journal of Hydrogen Energy</i> , 2022, , .	3.8	6
129	Problem of disposal of unwanted pesticides deposited in concrete tombs. <i>Waste Management and Research</i> , 1999, 17, 220-227.	2.2	5
130	Outlook and prospects. , 2018, , 341-344.		5
131	Impact of Tetrazolium Ionic Liquid Thermal Decomposition in Solvothermal Reaction on the Remarkable Photocatalytic Properties of TiO ₂ Particles. <i>Nanomaterials</i> , 2019, 9, 744.	1.9	5
132	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, .	0.5	4
133	Fundamentals of metal oxide-based photocatalysis. , 2018, , 3-50.		4
134	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.	3.1	4
135	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.	1.6	3
136	Editorial Catalysts: Special Issue on Recent Advances in TiO ₂ Photocatalysts. <i>Catalysts</i> , 2021, 11, 790.	1.6	3
137	New approach for the synthesis of Ag ₃ PO ₄ -graphene photocatalysts. <i>Materials Science in Semiconductor Processing</i> , 2022, 149, 106851.	1.9	3
138	Photocatalysts for Solar Energy Conversion. , 2013, , 63-102.		2
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142	Editorial [Hot Topic: Light-Driven Reactions and Materials in the Environmental Technology (Guest) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	0.3	0
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