

# Ewa Kowalska

## 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.

102 papers	3,650 citations	29 h-index	59 g-index
114 ext. papers	4,293 ext. citations	6 avg, IF	5.77 L-index

#	Paper	IF	Citations
102	Enhanced Photocatalytic Activity of Hierarchical Bi <sub>2</sub> WO <sub>6</sub> Microballs by Modification with Noble Metals. <i>Catalysts</i> , <b>2022</b> , 12, 130	4	1
101	The Role of Oxygen Vacancy and Other Defects for Activity Enhancement. <i>Green Chemistry and Sustainable Technology</i> , <b>2022</b> , 337-355	1.1	
100	Development of Monodisperse Mesoporous Microballs Composed of Decahedral Anatase Nanocrystals. <i>Catalysts</i> , <b>2022</b> , 12, 408	4	
99	A novel (Ti/Ce)UiO-X MOFs@TiO <sub>2</sub> heterojunction for enhanced photocatalytic performance: Boosting via Ce <sup>4+</sup> /Ce <sup>3+</sup> and Ti <sup>4+</sup> /Ti <sup>3+</sup> redox mediators. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 310, 121349	21.8	0
98	Fabrication and Characterization of Inverse-Opal Titania Films for Enhancement of Photocatalytic Activity. <i>ChemEngineering</i> , <b>2022</b> , 6, 33	2.6	
97	Bi <sub>2</sub> WO <sub>6</sub> -based Z-scheme photocatalysts: Principles, mechanisms and photocatalytic applications. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107838	6.8	0
96	Nanoarchitecture engineering in heterogeneous photocatalysis for improved activity and selectivity. <i>Chem Catalysis</i> , <b>2022</b> , 2, 925-927		0
95	P25 and its components - Electronic properties and photocatalytic activities. <i>Surfaces and Interfaces</i> , <b>2022</b> , 31, 102057	4.1	1
94	Morphology-Governed Performance of Multi-Dimensional Photocatalysts for Hydrogen Generation. <i>Energies</i> , <b>2021</b> , 14, 7223	3.1	3
93	The synergistic effect of anatase and brookite for photocatalytic generation of hydrogen and diclofenac degradation. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106566	6.8	3
92	Application of Spinel and Hexagonal Ferrites in Heterogeneous Photocatalysis. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 10160	2.6	2
91	Slow Photon-induced Enhancement of Photocatalytic Activity of Gold Nanoparticle-incorporated Titania Inverse Opal. <i>Chemistry Letters</i> , <b>2021</b> , 50, 711-713	1.7	7
90	Systematic and detailed examination of NaYF <sub>4</sub> -Er-Yb-TiO <sub>2</sub> photocatalytic activity under Vis/NIR irradiation: Experimental and theoretical analyses. <i>Applied Surface Science</i> , <b>2021</b> , 536, 147805	6.7	7
89	Stannates, titanates and tantalates modified with carbon and graphene quantum dots for enhancement of visible-light photocatalytic activity. <i>Applied Surface Science</i> , <b>2021</b> , 541, 148425	6.7	7
88	Plasmonic photocatalysis <b>2021</b> , 421-446		
87	On the mechanism of photocatalytic reactions on Cu <sub>x</sub> O@TiO <sub>2</sub> core-shell photocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 10135-10145	13	12
86	Mono- and bimetallic (Pt/Cu) titanium(IV) oxide core-shell photocatalysts with UV/Vis light activity and magnetic separability. <i>Catalysis Today</i> , <b>2021</b> , 361, 198-209	5.3	13

85	Computer Simulations of Photocatalytic Reactors. <i>Catalysts</i> , <b>2021</b> , 11, 198	4	4
84	Novel Structures and Applications of Graphene-Based Semiconductor Photocatalysts: Faceted Particles, Photonic Crystals, Antimicrobial and Magnetic Properties. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 1982	2.6	3
83	Defective Dopant-Free TiO <sub>2</sub> as an Efficient Visible Light-Active Photocatalyst. <i>Catalysts</i> , <b>2021</b> , 11, 978	4	6
82	Visible-light-driven lanthanide-organic-frameworks modified TiO <sub>2</sub> photocatalysts utilizing up-conversion effect. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 291, 120056	21.8	7
81	TiO <sub>2</sub> /Au/TiO <sub>2</sub> plasmonic photocatalyst with enhanced photocatalytic activity and stability under visible-light irradiation. <i>Catalysis Today</i> , <b>2021</b> ,	5.3	2
80	Does Symmetry Control Photocatalytic Activity of Titania-Based Photocatalysts?. <i>Symmetry</i> , <b>2021</b> , 13, 1682	2.7	2
79	Theoretical and Experimental Studies on the Visible Light Activity of TiO <sub>2</sub> Modified with Halide-Based Ionic Liquids. <i>Catalysts</i> , <b>2020</b> , 10, 371	4	4
78	On the excitation mechanism of visible responsible Er-TiO <sub>2</sub> system proved by experimental and theoretical investigations for boosting photocatalytic activity. <i>Applied Surface Science</i> , <b>2020</b> , 527, 146815	6.7	5
77	Three-dimensional monodispersed TiO <sub>2</sub> microsphere network formed by a sub-zero sol-gel method. <i>Materials Letters</i> , <b>2020</b> , 268, 127592	3.3	4
76	The Influence of The Light-Activated Titania P25 on Human Breast Cancer Cells. <i>Catalysts</i> , <b>2020</b> , 10, 238	4	5
75	Gas-Phase Synthesis of Anatase Titania Nanocrystals with Controlled Structural Properties <b>2020</b> , 99-109		
74	Octahedral Anatase Titania as Efficient Photocatalyst: Influence of Preparation Conditions. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 1278-1287	1.3	0
73	Morphology-Governed Performance of Plasmonic Photocatalysts. <i>Catalysts</i> , <b>2020</b> , 10, 1070	4	7
72	Vis-Responsive Copper-Modified Titania for Decomposition of Organic Compounds and Microorganisms. <i>Catalysts</i> , <b>2020</b> , 10, 1194	4	2
71	Heterojunction of CuO nanoclusters with TiO for photo-oxidation of organic compounds and for hydrogen production. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 034705	3.9	11
70	Mono- and bimetallic (Pt/Cu) titanium(IV) oxide photocatalysts. Physicochemical and photocatalytic data of magnetic nanocomposites. <i>Data in Brief</i> , <b>2020</b> , 31, 105814	1.2	2
69	Plasmonic Photocatalysts for Microbiological Applications. <i>Catalysts</i> , <b>2020</b> , 10, 824	4	14
68	Are Titania Photocatalysts and Titanium Implants Safe? Review on the Toxicity of Titanium Compounds. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	17

67	Photonic Crystals for Plasmonic Photocatalysis. <i>Catalysts</i> , <b>2020</b> , 10, 827	4	14
66	Inhibition of Fungal Growth Using Modified TiO with Core@Shell Structure of Ag@CuO Clusters.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 5626-5633	4.1	14
65	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> , <b>2019</b> , 549, 212-224	9.3	12
64	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
63	Experimental and computational study of Tm-doped TiO <sub>2</sub> : The effect of Li <sup>+</sup> on Vis-response photocatalysis and luminescence. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 252, 138-151	21.8	18
62	Morphology, Photocatalytic and Antimicrobial Properties of TiO Modified with Mono- and Bimetallic Copper, Platinum and Silver Nanoparticles. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	15
61	The Effect of the Metal Type on Luminescence and Photocatalytic Properties of Lanthanide-Organic Frameworks Modified Titania. <i>Proceedings (mdpi)</i> , <b>2019</b> , 16, 11	0.3	1
60	Size-Controlled Synthesis of Pt Particles on TiO <sub>2</sub> Surface: Physicochemical Characteristic and Photocatalytic Activity. <i>Catalysts</i> , <b>2019</b> , 9, 940	4	15
59	Gas-phase removal of indoor volatile organic compounds and airborne microorganisms over mono- and bimetal-modified (Pt, Cu, Ag) titanium(IV) oxide nanocomposites. <i>Indoor Air</i> , <b>2019</b> , 29, 979-992	5.4	13
58	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
57	Morphology- and Crystalline Composition-Governed Activity of Titania-Based Photocatalysts: Overview and Perspective. <i>Catalysts</i> , <b>2019</b> , 9, 1054	4	27
56	Influence of Semiconductor Morphology on Photocatalytic Activity of Plasmonic Photocatalysts: Titanate Nanowires and Octahedral Anatase Nanoparticles. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	8
55	Carbon/Graphene-Modified Titania with Enhanced Photocatalytic Activity under UV and Vis Irradiation. <i>Materials</i> , <b>2019</b> , 12,	3.5	13
54	Bactericidal Properties of Plasmonic Photocatalysts Composed of Noble Metal Nanoparticles on Faceted Anatase Titania. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2019</b> , 19, 442-452	1.3	9
53	Noble Metal Nanoparticles for Water Purification <b>2019</b> , 553-579		8
52	A new simple approach to prepare rare-earth metals-modified TiO <sub>2</sub> nanotube arrays photoactive under visible light: Surface properties and mechanism investigation. <i>Results in Physics</i> , <b>2019</b> , 12, 412-423	3.7	18
51	Photocatalytic and Antimicrobial Properties of Ag <sub>2</sub> O/TiO <sub>2</sub> Heterojunction. <i>ChemEngineering</i> , <b>2019</b> , 3, 3	2.6	22
50	Band-gap Engineering of Photocatalysts: Surface Modification versus Doping <b>2018</b> , 447-484		4

49	Silver-modified octahedral anatase particles as plasmonic photocatalyst. <i>Catalysis Today</i> , <b>2018</b> , 310, 19-25	5.3	19
48	Interparticle electron transfer in methanol dehydrogenation on platinum-loaded titania particles prepared from P25. <i>Catalysis Today</i> , <b>2018</b> , 303, 327-333	5.3	38
47	UV-Vis-Induced Degradation of Phenol over Magnetic Photocatalysts Modified with Pt, Pd, Cu and Au Nanoparticles. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	47
46	Synergistic Effect of Cu <sub>2</sub> O and Urea as Modifiers of TiO <sub>2</sub> for Enhanced Visible Light Activity. <i>Catalysts</i> , <b>2018</b> , 8, 240	4	6
45	Influence of the preparation method on the photocatalytic activity of Nd-modified TiO. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 447-459	3	24
44	Noble metal-modified faceted anatase titania photocatalysts: Octahedron versus decahedron. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 574-587	21.8	46
43	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> , <b>2018</b> , 47, 15232-15245	4.3	29
42	Enhanced Photocatalytic and Antimicrobial Performance of Cuprous Oxide/Titania: The Effect of Titania Matrix. <i>Materials</i> , <b>2018</b> , 11,	3.5	28
41	TiO <sub>2</sub> and NaTaO <sub>3</sub> Decorated by Trimetallic Au/Pd/Pt Core/Shell Nanoparticles as Efficient Photocatalysts: Experimental and Computational Studies. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 16665-16682	8.3	29
40	Photocatalytic Water Disinfection under Solar Irradiation by d-Glucose-Modified Titania. <i>Catalysts</i> , <b>2018</b> , 8, 316	4	17
39	Noble metal-modified titania with visible-light activity for the decomposition of microorganisms. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 829-841	3	18
38	Enhanced photocatalytic activity of octahedral anatase particles prepared by hydrothermal reaction. <i>Catalysis Today</i> , <b>2017</b> , 280, 29-36	5.3	12
37	Size-controlled gold nanoparticles on octahedral anatase particles as efficient plasmonic photocatalyst. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 206, 393-405	21.8	43
36	Photocatalytic Hydrogen Evolution Using NiPd/TiO <sub>2</sub> : Correlation of Light Absorption, Charge-Carrier Dynamics, and Quantum Efficiency. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 14302-14311	21.8	65
35	Preparation and photocatalytic activity of Nd-modified TiO <sub>2</sub> photocatalysts: Insight into the excitation mechanism under visible light. <i>Journal of Catalysis</i> , <b>2017</b> , 353, 211-222	7.3	31
34	Noble metal-modified octahedral anatase titania particles with enhanced activity for decomposition of chemical and microbiological pollutants. <i>Chemical Engineering Journal</i> , <b>2017</b> , 318, 121-134	14.7	51
33	On the Origin of Enhanced Photocatalytic Activity of Copper-Modified Titania in the Oxidative Reaction Systems. <i>Catalysts</i> , <b>2017</b> , 7, 317	4	119
32	Photocatalytic activity and luminescence properties of RE <sub>3</sub> +TiO <sub>2</sub> nanocrystals prepared by sol-gel and hydrothermal methods. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 181, 825-837	21.8	84

31	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> , <b>2016</b> , 387, 89-102	6.7	90
30	Decahedral-shaped anatase titania photocatalyst particles: Synthesis in a newly developed coaxial-flow gas-phase reactor. <i>Chemical Engineering Journal</i> , <b>2016</b> , 289, 502-512	14.7	36
29	Titania modification with a ruthenium(II) complex and gold nanoparticles for photocatalytic degradation of organic compounds. <i>Photochemical and Photobiological Sciences</i> , <b>2016</b> , 15, 69-79	4.2	14
28	Surface Modification of TiO <sub>2</sub> with Ag Nanoparticles and CuO Nanoclusters for Application in Photocatalysis. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 5143-5154	3.8	198
27	Synergetic effect of Ni and Au nanoparticles synthesized on titania particles for efficient photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 191, 18-28	21.8	114
26	Influence of titanium dioxide modification on the antibacterial properties. <i>Polish Journal of Chemical Technology</i> , <b>2016</b> , 18, 56-64	1	3
25	Mono- and Dual-modified Titania with a Ruthenium(II) Complex and Silver Nanoparticles for Photocatalytic Degradation of Organic Compounds. <i>Journal of Advanced Oxidation Technologies</i> , <b>2016</b> , 19,		3
24	Surface Modification of TiO <sub>2</sub> with Au Nanoclusters for Efficient Water Treatment and Hydrogen Generation under Visible Light. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 25010-25022	3.8	78
23	Silver- and copper-modified decahedral anatase titania particles as visible light-responsive plasmonic photocatalyst. <i>Journal of Photonics for Energy</i> , <b>2016</b> , 7, 012008	1.2	29
22	The effect of anatase and rutile crystallites isolated from titania P25 photocatalyst on growth of selected mould fungi. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2015</b> , 151, 54-62	6.7	28
21	The effect of nanoparticles size on photocatalytic and antimicrobial properties of Ag-Pt/TiO <sub>2</sub> photocatalysts. <i>Applied Surface Science</i> , <b>2015</b> , 353, 317-325	6.7	76
20	Silver-modified titania with enhanced photocatalytic and antimicrobial properties under UV and visible light irradiation. <i>Catalysis Today</i> , <b>2015</b> , 252, 136-142	5.3	57
19	Hybrid photocatalysts composed of titania modified with plasmonic nanoparticles and ruthenium complexes for decomposition of organic compounds. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 178, 133-143	21.8	46
18	Morphology-dependent photocatalytic activity of octahedral anatase particles prepared by ultrasonication-hydrothermal reaction of titanates. <i>Nanoscale</i> , <b>2015</b> , 7, 12392-404	7.7	40
17	EFFECT OF WATER ACTIVITY AND TITANIA P25 PHOTOCATALYST ON INACTIVATION OF PATHOGENIC FUNGI--CONTRIBUTION TO THE PROTECTION OF PUBLIC HEALTH. <i>Central European Journal of Public Health</i> , <b>2015</b> , 23, 267-71	1.2	5
16	Mono- and bi-metallic plasmonic photocatalysts for degradation of organic compounds under UV and visible light irradiation. <i>Catalysis Today</i> , <b>2014</b> , 230, 131-137	5.3	63
15	Development of Plasmonic Photocatalysts for Environmental Application. <i>Advances in Science and Technology</i> , <b>2014</b> , 93, 174-183	0.1	9
14	Influence of post-treatment operations on structural properties and photocatalytic activity of octahedral anatase titania particles prepared by an ultrasonication-hydrothermal reaction. <i>Molecules</i> , <b>2014</b> , 19, 19573-87	4.8	21

13	Enhanced Photocatalytic Activity by Particle Morphology: Preparation, Characterization, and Photocatalytic Activities of Octahedral Anatase Titania Particles. <i>Chemistry Letters</i> , <b>2014</b> , 43, 346-348	1.7	21
12	Plasmonic Titania Photocatalysts Active under UV and Visible-Light Irradiation: Influence of Gold Amount, Size, and Shape. <i>Journal of Nanotechnology</i> , <b>2012</b> , 2012, 1-11	3.5	42
11	Resonant localization, enhancement, and polarization of optical fields in nano-scale interface regions for photo-catalytic applications. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 2814-22	1.3	23
10	Preparation and characterization of monometallic (Au) and bimetallic (Ag/Au) modified-titania photocatalysts activated by visible light. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 101, 504-514	21.8	185
9	Photoreactors for Wastewater Treatment: A Review. <i>Recent Patents on Engineering</i> , <b>2010</b> , 4, 242-266	0.3	36
8	Frequency- and polarization-dependent optical response of asymmetric spheroidal silver nanoparticles on dielectric substrate. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2010</b> , 4, 268-270	2.5	13
7	Visible-light-induced photocatalysis through surface plasmon excitation of gold on titania surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 2344-55	3.6	457
6	Silver-doped TiO <sub>2</sub> prepared by microemulsion method: Surface properties, bio- and photoactivity. <i>Separation and Purification Technology</i> , <b>2010</b> , 72, 309-318	8.3	149
5	Visible light-induced photocatalytic reaction of gold-modified titanium(IV) oxide particles: action spectrum analysis. <i>Chemical Communications</i> , <b>2009</b> , 241-3	5.8	351
4	Modification of Titanium Dioxide with Platinum Ions and Clusters: Application in Photocatalysis. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 1124-1131	3.8	182
3	TiO <sub>2</sub> photoactivity in vis and UV light: The influence of calcination temperature and surface properties. <i>Applied Catalysis B: Environmental</i> , <b>2008</b> , 84, 440-447	21.8	152
2	UV/VIS LIGHT-ENHANCED PHOTOCATALYSIS FOR WATER TREATMENT AND PROTECTION <b>2006</b> , 351-367		3
1	H <sub>2</sub> O <sub>2</sub> /UV enhanced degradation of pesticides in wastewater. <i>Water Science and Technology</i> , <b>2004</b> , 49, 261-266	2.2	29