

# Pawel Mazierski

## List of Publications by Year in descending order

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46  
papers

1,683  
citations

279487

23  
h-index

288905

40  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2179  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ti/TiO <sub>2</sub> nanotubes sensitized PbS quantum dots as photoelectrodes applied for decomposition of anticancer drugs under simulated solar energy. <i>Journal of Hazardous Materials</i> , 2022, 421, 126751.	6.5	16
2	Solar-driven photoelectrocatalytic degradation of anticancer drugs using TiO <sub>2</sub> nanotubes decorated with SnS quantum dots. <i>Dalton Transactions</i> , 2022, 51, 5962-5976.	1.6	2
3	Lead-free bismuth-based perovskites coupled with g-C <sub>3</sub> N <sub>4</sub> : A machine learning based novel approach for visible light induced degradation of pollutants. <i>Applied Surface Science</i> , 2022, 588, 152921.	3.1	13
4	Remarkable visible-light induced hydrogen generation with ZnIn <sub>2</sub> S <sub>4</sub> microspheres/CuInS <sub>2</sub> quantum dots photocatalytic system. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 486-498.	3.8	44
5	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> , 2021, 536, 147805.	3.1	14
6	Effect of synthesis method parameters on properties and photoelectrocatalytic activity under solar irradiation of TiO <sub>2</sub> nanotubes decorated with CdS quantum dots. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104816.	3.3	14
7	Insights into the Intrinsic Creation of Heterojunction-Based Ordered TiO <sub>2</sub> 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
8	Thermal annealing of ordered TiO <sub>2</sub> nanotube arrays with water vapor-assisted crystallization under a continuous gas flow for superior photocatalytic performance. <i>Chemical Engineering Journal</i> , 2021, 425, 130619.	6.6	8
9	Novel two-step synthesis method of thin film heterojunction of BiOBr/Bi <sub>2</sub> WO <sub>6</sub> with improved visible-light-driven photocatalytic activity. <i>Applied Surface Science</i> , 2021, 569, 151082.	3.1	24
10	NANORURKI TiO <sub>2</sub> : SYNTEZA I ZASTOSOWANIE. <i>Wiadomości Chemiczne</i> , 2021, , 1195-1209.	0.0	0
11	Enhanced Visible Light Active WO <sub>3</sub> Thin Films Toward Air Purification: Effect of the Synthesis Conditions. <i>Materials</i> , 2020, 13, 3506.	1.3	9
12	Theoretical and Experimental Studies on the Visible Light Activity of TiO <sub>2</sub> Modified with Halide-Based Ionic Liquids. <i>Catalysts</i> , 2020, 10, 371.	1.6	6
13	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> , 2020, 527, 146815.	3.1	14
14	Unexpected effect of ozone on the paraben's mixture degradation using TiO <sub>2</sub> supported nanotubes. <i>Science of the Total Environment</i> , 2020, 743, 140831.	3.9	13
15	Ordered TiO <sub>2</sub> 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.	3.2	8
16	TiO <sub>2</sub> 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
17	Fabrication of Durable Ordered Ta <sub>2</sub> O <sub>5</sub> Nanotube Arrays Decorated with Bi <sub>2</sub> S <sub>3</sub> Quantum Dots. <i>Nanomaterials</i> , 2019, 9, 1347.	1.9	9
18	Shape-controllable synthesis of GdVO <sub>4</sub> photocatalysts and their tunable properties in photocatalytic hydrogen generation. <i>Dalton Transactions</i> , 2019, 48, 1662-1671.	1.6	20

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19	Experimental and theoretical investigations of the influence of carbon on a Ho <sup>3+</sup> -TiO <sub>2</sub> photocatalyst with Vis response. <i>Journal of Colloid and Interface Science</i> , 2019, 549, 212-224.	5.0	18
20	Removal of 5-fluorouracil by solar-driven photoelectrocatalytic oxidation using Ti/TiO <sub>2</sub> (NT) photoelectrodes. <i>Water Research</i> , 2019, 157, 610-620.	5.3	52
21	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> , 2019, 252, 138-151.	10.8	25
22	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> , 2019, 12, 412-423.	2.0	30
23	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.	7.0	129
24	The role of lanthanides in TiO <sub>2</sub> -based photocatalysis: A review. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 301-317.	10.8	146
25	Visible light photocatalysis employing TiO <sub>2</sub> /SrTiO <sub>3</sub> -BiOI composites: Surface properties and photoexcitation mechanism. <i>Molecular Catalysis</i> , 2018, 452, 154-166.	1.0	18
26	Preparation of CdS and Bi <sub>2</sub> S <sub>3</sub> quantum dots co-decorated perovskite-type KNbO <sub>3</sub> ternary heterostructure with improved visible light photocatalytic activity and stability for phenol degradation. <i>Dalton Transactions</i> , 2018, 47, 15232-15245.	1.6	42
27	Facile Formation of Self-Organized TiO <sub>2</sub> Nanotubes in Electrolyte Containing Ionic Liquid-Ethylammonium Nitrate and Their Remarkable Photocatalytic Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14510-14522.	3.2	9
28	Electrochemically Obtained TiO <sub>2</sub> /Cu <sub>x</sub> O <sub>y</sub> 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
29	Influence of the preparation method on the photocatalytic activity of Nd-modified TiO <sub>2</sub> . <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 447-459.	1.5	34
30	TiO <sub>2</sub> Cu <sub>x</sub> O <sub>y</sub> composite nanotube arrays via one step electrochemical anodization for visible light-induced photocatalytic reaction. <i>Surfaces and Interfaces</i> , 2018, 12, 179-189.	1.5	10
31	Photocatalytically Active TiO <sub>2</sub> /Ag <sub>2</sub> 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
32	The ILs-assisted electrochemical synthesis of TiO <sub>2</sub> nanotubes: The effect of ionic liquids on morphology and photoactivity. <i>Applied Catalysis B: Environmental</i> , 2017, 214, 100-113.	10.8	35
33	Enhanced photocatalytic properties of lanthanide-TiO <sub>2</sub> nanotubes: An experimental and theoretical study. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 376-385.	10.8	87
34	Preparation and photocatalytic properties of BaZrO <sub>3</sub> and SrZrO <sub>3</sub> modified with Cu <sub>2</sub> O/Bi <sub>2</sub> O <sub>3</sub> quantum dots. <i>Solid State Sciences</i> , 2017, 74, 13-23.	1.5	29
35	Highly Visible-Light-Photoactive Heterojunction Based on TiO <sub>2</sub> Nanotubes Decorated by Pt Nanoparticles and Bi <sub>2</sub> S <sub>3</sub> Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17215-17225.	1.5	30
36	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> , 2017, 353, 211-222.	3.1	43

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37	The effects of bifunctional linker and reflux time on the surface properties and photocatalytic activity of CdTe quantum dots decorated KTaO <sub>3</sub> composite photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 452-464.	10.8	50
38	Effect of irradiation intensity and initial pollutant concentration on gas phase photocatalytic activity of TiO <sub>2</sub> nanotube arrays. <i>Catalysis Today</i> , 2017, 284, 19-26.	2.2	51
39	Growth, Structure, and Photocatalytic Properties of Hierarchical V <sub>2</sub> O <sub>5</sub> @TiO <sub>2</sub> Nanotube Arrays Obtained from the One-step Anodic Oxidation of Ti-V Alloys. <i>Molecules</i> , 2017, 22, 580.	1.7	31
40	Self-Organized TiO <sub>2</sub> @MnO <sub>2</sub> Nanotube Arrays for Efficient Photocatalytic Degradation of Toluene. <i>Molecules</i> , 2017, 22, 564.	1.7	43
41	The effect of metal cluster deposition route on structure and photocatalytic activity of mono- and bimetallic nanoparticles supported on TiO <sub>2</sub> by radiolytic method. <i>Applied Surface Science</i> , 2016, 378, 37-48.	3.1	66
42	Photocatalytic activity of nitrogen doped TiO <sub>2</sub> 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
43	Enhanced photocatalytic, electrochemical and photoelectrochemical properties of TiO <sub>2</sub> 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
44	Photoreactor Design Aspects and Modeling of Light. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 211-248.	0.4	6
45	KTaO <sub>3</sub> -based nanocomposites for air treatment. <i>Catalysis Today</i> , 2015, 252, 47-53.	2.2	34
46	Ordered TiO <sub>2</sub> nanotubes: The effect of preparation parameters on the photocatalytic activity in air purification process. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 674-685.	10.8	110