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	The role of lanthanides in TiO2-based photocatalysis: A review. Applied Catalysis B: Environmental, 2018, 233, 301-317.	10.8	146
2	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
3	Ordered TiO2 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
4	Photocatalytic activity of nitrogen doped TiO2 nanotubes prepared by anodic oxidation: The effect of applied voltage, anodization time and amount of nitrogen dopant. Applied Catalysis B: Environmental, 2016, 196, 77-88.	10.8	110
5	Enhanced photocatalytic, electrochemical and photoelectrochemical properties of TiO2 nanotubes arrays modified with Cu, AgCu and Bi nanoparticles obtained via radiolytic reduction. Applied Surface Science, 2016, 387, 89-102.	3.1	106
6	Enhanced photocatalytic properties of lanthanide-TiO2 nanotubes: An experimental and theoretical study. Applied Catalysis B: Environmental, 2017, 205, 376-385.	10.8	87
7	Photocatalytically Active TiO₂/Ag₂O Nanotube Arrays Interlaced with Silver Nanoparticles Obtained from the One-Step Anodic Oxidation of Tiâ€“Ag Alloys. ACS Catalysis, 2017, 7, 2753-2764.	5.5	76
8	The effect of metal cluster deposition route on structure and photocatalytic activity of mono- and bimetallic nanoparticles supported on TiO2 by radiolytic method. Applied Surface Science, 2016, 378, 37-48.	3.1	66
9	Removal of 5-fluorouracil by solar-driven photoelectrocatalytic oxidation using Ti/TiO2(NT) photoelectrodes. Water Research, 2019, 157, 610-620.	5.3	52
10	Effect of irradiation intensity and initial pollutant concentration on gas phase photocatalytic activity of TiO 2 nanotube arrays. Catalysis Today, 2017, 284, 19-26.	2.2	51
11	The effects of bifunctional linker and reflux time on the surface properties and photocatalytic activity of CdTe quantum dots decorated KTaO3 composite photocatalysts. Applied Catalysis B: Environmental, 2017, 203, 452-464.	10.8	50
12	Remarkable visible-light induced hydrogen generation with ZnIn2S4 microspheres/CuInS2 quantum dots photocatalytic system. International Journal of Hydrogen Energy, 2021, 46, 486-498.	3.8	44
13	Preparation and photocatalytic activity of Nd-modified TiO2 photocatalysts: Insight into the excitation mechanism under visible light. Journal of Catalysis, 2017, 353, 211-222.	3.1	43
14	Self-Organized TiO2â€“MnO2 Nanotube Arrays for Efficient Photocatalytic Degradation of Toluene. Molecules, 2017, 22, 564.	1.7	43
15	Preparation of CdS and Bi₂S₃ quantum dots co-decorated perovskite-type KNbO₃ ternary heterostructure with improved visible light photocatalytic activity and stability for phenol degradation. Dalton Transactions, 2018, 47, 15232-15245.	1.6	42
16	The ILs-assisted electrochemical synthesis of TiO 2 nanotubes: The effect of ionic liquids on morphology and photoactivity. Applied Catalysis B: Environmental, 2017, 214, 100-113.	10.8	35
17	KTaO3-based nanocomposites for air treatment. Catalysis Today, 2015, 252, 47-53.	2.2	34
18	Influence of the preparation method on the photocatalytic activity of Nd-modified TiO₂. Beilstein Journal of Nanotechnology, 2018, 9, 447-459.	1.5	34

#	Article	IF	Citations
19	Growth, Structure, and Photocatalytic Properties of Hierarchical V2O5â€“TiO2 Nanotube Arrays Obtained from the One-step Anodic Oxidation of Tiâ€“V Alloys. Molecules, 2017, 22, 580.	1.7	31
20	Highly Visible-Light-Photoactive Heterojunction Based on TiO₂ Nanotubes Decorated by Pt Nanoparticles and Bi₂S₃ Quantum Dots. Journal of Physical Chemistry C, 2017, 121, 17215-17225.	1.5	30
21	A new simple approach to prepare rare-earth metals-modified TiO2 nanotube arrays photoactive under visible light: Surface properties and mechanism investigation. Results in Physics, 2019, 12, 412-423.	2.0	30
22	Preparation and photocatalytic properties of BaZrO 3 and SrZrO 3 modified with Cu 2 O/Bi 2 O 3 quantum dots. Solid State Sciences, 2017, 74, 13-23.	1.5	29
23	TiO2 nanotube arrays-based reactor for photocatalytic oxidation of parabens mixtures in ultrapure water: Effects of photocatalyst properties, operational parameters and light source. Science of the Total Environment, 2019, 689, 79-89.	3.9	27
24	Experimental and computational study of Tm-doped TiO2: The effect of Li+ on Vis-response photocatalysis and luminescence. Applied Catalysis B: Environmental, 2019, 252, 138-151.	10.8	25
25	Novel two-step synthesis method of thin film heterojunction of BiOBr/Bi2WO6 with improved visible-light-driven photocatalytic activity. Applied Surface Science, 2021, 569, 151082.	3.1	24
26	Shape-controllable synthesis of GdVO₄ photocatalysts and their tunable properties in photocatalytic hydrogen generation. Dalton Transactions, 2019, 48, 1662-1671.	1.6	20
27	Visible light photocatalysis employing TiO2/SrTiO3-BiOI composites: Surface properties and photoexcitation mechanism. Molecular Catalysis, 2018, 452, 154-166.	1.0	18
28	Experimental and theoretical investigations of the influence of carbon on a Ho3+-TiO2 photocatalyst with Vis response. Journal of Colloid and Interface Science, 2019, 549, 212-224.	5.0	18
29	Electrochemically Obtained TiO2/CuxOy Nanotube Arrays Presenting a Photocatalytic Response in Processes of Pollutants Degradation and Bacteria Inactivation in Aqueous Phase. Catalysts, 2018, 8, 237.	1.6	16
30	Ti/TiO2 nanotubes sensitized PbS quantum dots as photoelectrodes applied for decomposition of anticancer drugs under simulated solar energy. Journal of Hazardous Materials, 2022, 421, 126751.	6.5	16
31	On the excitation mechanism of visible responsible Er-TiO2 system proved by experimental and theoretical investigations for boosting photocatalytic activity. Applied Surface Science, 2020, 527, 146815.	3.1	14
32	Systematic and detailed examination of NaYF4-Er-Yb-TiO2 photocatalytic activity under Visâ€“NIR irradiation: Experimental and theoretical analyses. Applied Surface Science, 2021, 536, 147805.	3.1	14
33	Effect of synthesis method parameters on properties and photoelectrocatalytic activity under solar irradiation of TiO2 nanotubes decorated with CdS quantum dots. Journal of Environmental Chemical Engineering, 2021, 9, 104816.	3.3	14
34	Unexpected effect of ozone on the paraben's mixture degradation using TiO2 supported nanotubes. Science of the Total Environment, 2020, 743, 140831.	3.9	13
35	Lead-free bismuth-based perovskites coupled with gâ€“C3N4: A machine learning based novel approach for visible light induced degradation of pollutants. Applied Surface Science, 2022, 588, 152921.	3.1	13
36	TiO2CoxOy composite nanotube arrays via one step electrochemical anodization for visible lightâ€“induced photocatalytic reaction. Surfaces and Interfaces, 2018, 12, 179-189.	1.5	10

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37	Facile Formation of Self-Organized TiO₂ 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
38	Fabrication of Durable Ordered Ta2O5 Nanotube Arrays Decorated with Bi2S3 Quantum Dots. Nanomaterials, 2019, 9, 1347.	1.9	9
39	Enhanced Visible Light Active WO3 Thin Films Toward Air Purification: Effect of the Synthesis Conditions. Materials, 2020, 13, 3506.	1.3	9
40	Ordered TiO₂ 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
41	Thermal annealing of ordered TiO2 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
42	Photoreactor Design Aspects and Modeling of Light. Green Chemistry and Sustainable Technology, 2016, , 211-248.	0.4	6
43	Theoretical and Experimental Studies on the Visible Light Activity of TiO2 Modified with Halide-Based Ionic Liquids. Catalysts, 2020, 10, 371.	1.6	6
44	Insights into the Intrinsic Creation of Heterojunction-Based Ordered TiO₂ Nanotubes Obtained from the One-Step Anodic Oxidation of Titanium Alloys. Journal of Physical Chemistry C, 2021, 125, 7097-7108.	1.5	6
45	Solar-driven photoelectrocatalytic degradation of anticancer drugs using TiO₂nanotubes decorated with SnS quantum dots. Dalton Transactions, 2022, 51, 5962-5976.	1.6	2
46	NANORURKI TiO2: SYNTEZA I ZASTOSOWANIE. WiadomoÅ›ci Chemiczne, 2021, , 1195-1209.	0.0	0