Katarzyna SiwiÅ„ska-StefaÅ„ska

List of Publications by Year
in descending order

63 papers	1,514 citations	346980 22 h-index	371746 37 g-index
65 all docs	65 docs citations	65 times ranked	2186 citing authors

#	Article	IF	Citations
1	Modification of Chitin with Kraft Lignin and Development of New Biosorbents for Removal of Cadmium(II) and Nickel(II) Ions. Marine Drugs, 2014, 12, 2245-2268.	2.2	124
2	Microwave-assisted synthesis of a TiO2-CuO heterojunction with enhanced photocatalytic activity against tetracycline. Applied Surface Science, 2020, 520, 146344.	3.1	106
3	Preparation and characterization of novel TiO2/lignin and TiO2-SiO2/lignin hybrids and their use as functional biosorbents for Pb(II). Chemical Engineering Journal, 2017, 314, 169-181.	6.6	102
4	TiO2-ZnO Binary Oxide Systems: Comprehensive Characterization and Tests of Photocatalytic Activity. Materials, 2018, 11, 841.	1.3	97
5	Synergistic Degradation of Dye Wastewaters Using Binary or Ternary Oxide Systems with Immobilized Laccase. Catalysts, 2018, 8, 402.	1.6	73
6	Development of lignin based multifunctional hybrid materials for Cu(II) and Cd(II) removal from the aqueous system. Chemical Engineering Journal, 2017, 330, 518-530.	6.6	65
7	Hydrothermal synthesis of multifunctional TiO2-ZnO oxide systems with desired antibacterial and photocatalytic properties. Applied Surface Science, 2019, 463, 791-801.	3.1	64
8	Adsorption of Ni(II) from model solutions using co-precipitated inorganic oxides. Adsorption, 2013, 19, 423-434.	1.4	59
9	Titania-Based Hybrid Materials with ZnO, ZrO2 and MoS2: A Review. Materials, 2018, 11, 2295.	1.3	49
10	Synthesis of highly crystalline photocatalysts based on TiO2 and ZnO for the degradation of organic impurities under visible-light irradiation. Adsorption, 2019, 25, 309-325.	1.4	43
11	Preparation and Characterization of Multifunctional Chitin/Lignin Materials. Journal of Nanomaterials, 2013, 2013, 1-13.	1.5	42
12	The performance of multicomponent oxide systems based on TiO2, ZrO2 and SiO2 in the photocatalytic degradation of Rhodamine B: Mechanism and kinetic studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124272.	2.3	42
13	Preparation of hybrid pigments via adsorption of selected food dyes onto inorganic oxides based on anatase titanium dioxide. Dyes and Pigments, 2012, 94, 338-348.	2.0	37
14	The influence of addition of a catalyst and chelating agent on the properties of titanium dioxide synthesized via the solâ€“gel method. Journal of Sol-Gel Science and Technology, 2015, 75, 264-278.	1.1	37
15	Immobilization of Titanium(IV) Oxide onto 3D Spongin Scaffolds of Marine Sponge Origin According to Extreme Biomimetics Principles for Removal of C.I. Basic Blue 9. Biomimetics, 2017, 2, 4.	1.5	31
16	Investigation of amino-grafted TiO2/reduced graphene oxide hybrids as a novel photocatalyst used for decomposition of selected organic dyes. Journal of Environmental Management, 2018, 212, 395-404.	3.8	31
17	Immobilization of Amano Lipase A onto StÃ¶ber silica surface: process characterization and kinetic studies. Open Chemistry, 2015, 13, .	1.0	30
18	Magnetite nanoparticles conjugated with lignin: A physicochemical and magnetic study. Applied Surface Science, 2017, 422, 94-103.	3.1	28

#	Article	IF	Citations
19	Silica/lignosulfonate hybrid materials: Preparation and characterization. Open Chemistry, 2014, 12, 719-735.	1.0	27
20	Functionalization of textile materials by alkoxysilane-grafted titanium dioxide. Journal of Materials Science, 2009, 44, 3852-3860.	1.7	26
21	Preparation and application of a titanium dioxide/graphene oxide anode material for lithiumâ€“ion batteries. Journal of Power Sources, 2015, 299, 286-292.	4.0	26
22	Synthesis of Titanium Dioxide via Surfactant-Assisted Microwave Method for Photocatalytic and Dye-Sensitized Solar Cells Applications. Catalysts, 2020, 10, 586.	1.6	26
23	Controlled microwave-assisted and pH-affected growth of ZnO structures and their photocatalytic performance. Powder Technology, 2021, 386, 221-235.	2.1	22
24	Mesostructured cellular foam silica materials for laccase immobilization and tetracycline removal: A comprehensive study. Microporous and Mesoporous Materials, 2020, 291, 109688.	2.2	21
25	Highly Crystalline TiO2-MoO3 Composite Materials Synthesized via a Template-Assisted Microwave Method for Electrochemical Application. Crystals, 2020, 10, 493.	1.0	18
26	Structural characterisation of titania or silane-grafted TiO2-SiO2 oxide composite and influence of ionic strength or electrolyte type on their electrokinetic properties. Colloid and Polymer Science, 2013, 291, 603-612.	1.0	16
27	A comprehensive method for tetracycline removal using lanthanum-enriched titaniaâ€“zirconia oxide system with tailored physicochemical properties. Environmental Technology and Innovation, 2021, 24, 102016.	3.0	16
28	Influence of Selected Alkoxysilanes on Dispersive Properties and Surface Chemistry of Titanium Dioxide and TiO₂â€“SiO₂Composite Material. Journal of Nanomaterials, 2012, 2012, 1-19.	1.5	15
29	Hydrothermal-assisted synthesis of highly crystalline titaniaâ€“copper oxide binary systems with enhanced antibacterial properties. Materials Science and Engineering C, 2019, 104, 109839.	3.8	14
30	Evaluation of the photocatalytic ability of a sol-gel-derived MgO-ZrO2 oxide material. Open Chemistry, 2017, 15, 7-18.	1.0	13
31	Novel highly efficient ionic liquid-functionalized silica for toxic metals removal. Separation and Purification Technology, 2021, 265, 118483.	3.9	13
32	A Composite TiO₂-SiO₂-ZrO₂Oxide System as a High-Performance Anode Material for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A728-A734.	1.3	12
33	Hydrothermally Assisted Fabrication of TiO2-Fe3O4 Composite Materials and Their Antibacterial Activity. Materials, 2020, 13, 4715.	1.3	12
34	TiO2â€SiO2 inorganic barrier composites: from synthesis to application. Pigment and Resin Technology, 2012, 41, 139-148.	0.5	11
35	Titanium dioxide/graphene oxide composite and its application as an anode material in non-flammable electrolyte based on ionic liquid and sulfolane. Journal of Solid State Electrochemistry, 2016, 20, 1971-1981.	1.2	11
36	Synthesis of Selected Mixed Oxide Materials with Tailored Photocatalytic Activity in the Degradation of Tetracycline. Materials, 2021, 14, 5361.	1.3	10

#	Article	IF	Citations
37	The TiO2-ZnO Systems with Multifunctional Applications in Photoactive Processesâ€"Efficient Photocatalyst under UV-LED Light and Electrode Materials in DSSCs. Materials, 2021, 14, 6063.	1.3	10
38	Enhanced removal of vanadium(V) from acidic streams using binary oxide systems of TiO2-ZrO2 and TiO2-ZnO type. Separation and Purification Technology, 2022, 280, 119916.	3.9	10
39	Modification of structured bioâ€'carbon derived from spongin-based scaffolds with nickel compounds to produce a functional catalyst for reduction and oxidation reactions: Potential for use in environmental protection. Science of the Total Environment, 2021, 794, 148692.	3.9	9
40	Ethylene polymerization using vanadium catalyst supported on silica modified by pyridinium ionic liquid. Polymer International, 2016, 65, 1089-1097.	1.6	8
41	Functional titaniaâ€"silica/chlorophyllin hybrids: design, fabrication, comprehensive physicochemical characteristic and photocatalytic test. Adsorption, 2019, 25, 485-499.	1.4	8
42	Crystallization of TiO2-MoS2 Hybrid Material under Hydrothermal Treatment and Its Electrochemical Performance. Materials, 2020, 13, 2706.	1.3	8
43	Design and Microwave-Assisted Synthesis of TiO2-Lanthanides Systems and Evaluation of Photocatalytic Activity under UV-LED Light Irradiation. Catalysts, 2022, 12, 8.	1.6	8
44	Polymer adsorption on the surface of highly dispersed silica. Applied Surface Science, 2008, 254, 3591-3600.	3.1	7
45	Lignosulfonate and silica as precursors of advanced composites. Polish Journal of Chemical Technology, 2013, 15, 103-109.	0.3	7
46	Nano-TiO 2 -SiO 2 powder as inorganic support for hybrid pigment preparation. Advanced Powder Technology, 2017, 28, 1298-1308.	2.0	7
47	Antimicrobial Activity and Barrier Properties against UV Radiation of Alkaline and Enzymatically Treated Linen Woven Fabrics Coated with Inorganic Hybrid Material. Molecules, 2020, 25, 5701.	1.7	7
48	TiO2/nanocellulose hybrids as functional additives for advanced polypropylene nanocomposites. Industrial Crops and Products, 2022, 176, 114314.	2.5	7
49	A novel microwave-assisted strategy to fabricate multifunctional photoactive titania-based heterostructures with enhanced activity. Materials Research Bulletin, 2022, 147, 111633.	2.7	6
50	Characterization of TiO₂ surface following the modification with silane coupling agents. Polish Journal of Chemical Technology, 2007, 9, 72-76.	0.3	5
51	Synthesis and characterization of a new hybrid TiO2/SiO2 filler for lithium conducting gel electrolytes. Open Chemistry, 2010, 8, 1311-1317.	1.0	5
52	Bismuth-titanium-silicon-based ternary oxide system: A comprehensive analysis and electrochemical utility. Solid State Ionics, 2018, 324, 92-102.	1.3	5
53	Catalytic and Physicochemical Evaluation of a TiO2/ZnO/Laccase Biocatalytic System: Application in the Decolorization of Azo and Anthraquinone Dyes. Materials, 2021, 14, 6030.	1.3	5
54	Use of MgO to Promote the Oxyethylation Reaction of Lauryl Alcohol. Polish Journal of Chemical Technology, 2014, 16, 36-42.	0.3	4

#	Article	IF	Citations
55	Novel Mesoporous Organosilicas with Task Ionic Liquids: Properties and High Adsorption Performance for Pb(II). Molecules, 2022, 27, 1405.	1.7	4
56	An Active Anode Material Based on Titania and Zinc Oxide Hybrids Fabricated via a Hydrothermal Route: Comprehensive Physicochemical and Electrochemical Evaluations. Journal of the Electrochemical Society, 2018, 165, A3056-A3066.	1.3	3
57	Evaluation of the physico-chemical properties of hydrocarbons-exposed bacterial biomass. Colloids and Surfaces B: Biointerfaces, 2020, 196, 111310.	2.5	3
58	Synthesis of vanadium-enriched oxide materials via modified sol-gel route with the use of waste solutions contaminated with vanadium ions. Physicochemical Problems of Mineral Processing, 0, , 60-75.	0.2	3
59	Precipitation of ZnOâ€SiO₂ oxide composites in the presence of natural rubber latex and selected nonâ€ionic surfactants. Pigment and Resin Technology, 2012, 41, 199-209.	0.5	2
60	Synthesis and physicochemical characterization of silicafillers modified with octakis({3-methacryloxypropyl}dimethylsiloxy) octasilsesquioxane. Polish Journal of Chemical Technology, 2013, 15, 15-23.	0.3	1
61	The morphological and dispersive characterization of commercial titanium dioxides. Polish Journal of Chemical Technology, 2007, 9, 28-35.	0.3	0
62	Advanced Hybrid Materials Based on Titanium Dioxide for Environmental and Electrochemical Applications. , 2017, , .		0
63	Tlenkowe materiaÅ‚y hybrydowe. Projektowanie, charakterystyka i wybrane kierunki uÅ¼ytkowe. Przemysl Chemiczny, 2018, 1, 12-23.	0.0	0