VÃ¡clav Å tengl

List of Publications by Year
in descending order

89 papers	4,064 citations	126907 33 h-index	118850 62 g-index
90 all docs	90 docs citations	90 times ranked	6151 citing authors

#	Article	IF	Citations
1	Photocatalytic activity of Sn-doped ZnO synthesized via peroxide route. Journal of Physics and Chemistry of Solids, 2022, 160, 110340.	4.0	12
2	Synthesis and characterization of TiO₂/Mg(OH)₂ composites for catalytic degradation of CWA surrogates. RSC Advances, 2020, 10, 19542-19552.	3.6	10
3	Removal of anthracycline cytostatics from aquatic environment: Comparison of nanocrystalline titanium dioxide and decontamination agents. PLoS ONE, 2019, 14, e0223117.	2.5	1
4	Solar light decomposition of warfare agent simulant DMMP on TiO2/graphene oxide nanocomposites. Catalysis Science and Technology, 2019, 9, 1816-1824.	4.1	13
5	Reactive adsorption of toxic organophosphates parathion methyl and DMMP on nanostructured Ti/Ce oxides and their composites. Arabian Journal of Chemistry, 2019, 12, 4258-4269.	4.9	28
6	From the Decomposition of Chemical Warfare Agents to the Decontamination of Cytostatics. Industrial & Engineering Chemistry Research, 2018, 57, 2114-2122.	3.7	7
7	Titania and zirconia binary oxides as catalysts for total oxidation of ethyl acetate and methanol decomposition. Journal of Environmental Chemical Engineering, 2018, 6, 2540-2550.	6.7	6
8	Safe decontamination of cytostatics from the nitrogen mustards family. Part one: cyclophosphamide and ifosfamide. International Journal of Nanomedicine, 2018, Volume 13, 7971-7985.	6.7	3
9	Chemical warfare agent simulant DMMP reactive adsorption on TiO2/graphene oxide composites prepared via titanium peroxo-complex or urea precipitation. Journal of Hazardous Materials, 2018, 359, 482-490.	12.4	23
10	Anthracycline antibiotics derivate mitoxantroneâ€”Destructive sorption and photocatalytic degradation. PLoS ONE, 2018, 13, e0193116.	2.5	8
11	Determination of amino groups on functionalized graphene oxide for polyurethane nanomaterials: XPS quantitation vs. functional speciation. RSC Advances, 2017, 7, 12464-12473.	3.6	271
12	A new possible way of anthracycline cytostatics decontamination. New Journal of Chemistry, 2017, 41, 3975-3985.	2.8	7
13	Nanocrystalline cerium oxide prepared from a carbonate precursor and its ability to breakdown biologically relevant organophosphates. Environmental Science: Nano, 2017, 4, 1283-1293.	4.3	34
14	Graphene oxide/MnO 2 nanocomposite as destructive adsorbent of nerve-agent simulants in aqueous media. Applied Surface Science, 2017, 412, 19-28.	6.1	25
15	Fast and Straightforward Synthesis of Luminescent Titanium(IV) Dioxide Quantum Dots. Journal of Nanomaterials, 2017, 2017, 1-9.	2.7	3
16	h-BN-TiO₂Nanocomposite for Photocatalytic Applications. Journal of Nanomaterials, 2016, 2016, 1-12.	2.7	28
17	Quantitative determination of acidic groups in functionalized graphene by direct titration. Reactive and Functional Polymers, 2016, 103, 44-53.	4.1	24
18	Graphene oxide â€“ mesoporous Î´-MnO2 nanocomposite as a novel destructive sorbent. Materials Today: Proceedings, 2016, 3, 2795-2806.	1.8	6

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19	Shape-controlled synthesis of Sn-doped CuO nanoparticles for catalytic degradation of Rhodamine B. Journal of Colloid and Interface Science, 2016, 481, 28-38.	9.4	45
20	Iron modified titaniumâ€“hafnium binary oxides as catalysts in total oxidation of ethyl acetate. Catalysis Communications, 2016, 81, 14-19.	3.3	12
21	Mesoporous manganese oxide for the degradation of organophosphates pesticides. Journal of Materials Science, 2016, 51, 2634-2642.	3.7	31
22	Cerium oxide for the destruction of chemical warfare agents: A comparison of synthetic routes. Journal of Hazardous Materials, 2016, 304, 259-268.	12.4	54
23	Nanostructured Metal Oxides for Stoichiometric Degradation of Chemical Warfare Agents. Reviews of Environmental Contamination and Toxicology, 2016, 236, 239-258.	1.3	10
24	Doping of Zinc Oxide with Selected First Row Transition Metals for Photocatalytic Applications. Photochemistry and Photobiology, 2015, 91, 1071-1077.	2.5	18
25	Graphene oxide nanoparticle attachment and its toxicity on living lung epithelial cells. RSC Advances, 2015, 5, 59447-59457.	3.6	9
26	Effect of preparation procedure on the formation of nanostructured ceriaâ€“zirconia mixed oxide catalysts for ethyl acetate oxidation: Homogeneous precipitation with urea vs template-assisted hydrothermal synthesis. Applied Catalysis A: General, 2015, 502, 418-432.	4.3	56
27	Degradation of organophosphorus pesticide parathion methyl on nanostructured titania-iron mixed oxides. Applied Surface Science, 2015, 344, 9-16.	6.1	35
28	Ultrasonic preparation of tungsten disulfide single-layers and quantum dots. RSC Advances, 2015, 5, 89612-89620.	3.6	34
29	Chemical degradation of trimethyl phosphate as surrogate for organo-phosporus pesticides on nanostructured metal oxides. Materials Research Bulletin, 2015, 61, 259-269.	5.2	11
30	<i>In Situ </i><scp>FTIR</scp> Spectroscopy Study of the Photodegradation of Acetaldehyde and azo Dye Photobleaching on Bismuthâ€Modified TiO₂. Photochemistry and Photobiology, 2015, 91, 48-58.	2.5	6
31	ZnO/Bi2O3 nanowire composites as a new family of photocatalysts. Powder Technology, 2015, 270, 83-91.	4.2	18
32	Improvement of Orange II Photobleaching by Moderate Ga3+Doping of Titania and Detrimental Effect of Structural Disorder on Ga Overloading. Journal of Nanomaterials, 2014, 2014, 1-11.	2.7	2
33	Self-Assembled BN and BCN Quantum Dots Obtained from High Intensity Ultrasound Exfoliated Nanosheets. Science of Advanced Materials, 2014, 6, 1106-1116.	0.7	42
34	Cerium dioxide as a new reactive sorbent for fast degradation of parathion methyl and some other organophosphates. Journal of Rare Earths, 2014, 32, 360-370.	4.8	105
35	Photocatalytic oxidation of butane by titania after reductive annealing. Journal of Materials Science, 2014, 49, 4161-4170.	3.7	6
36	Role of bismuth in nano-structured doped TiO2 photocatalyst prepared by environmentally benign soft synthesis. Journal of Materials Science, 2014, 49, 3560-3571.	3.7	11

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37	Ultrasound exfoliation of inorganic analogues of graphene. Nanoscale Research Letters, 2014, 9, 167.	5.7	58
38	Composite pigments based on surface coated kaolin and metakaolin. Applied Clay Science, 2014, 101, 149-158.	5.2	19
39	Blue and green luminescence of reduced graphene oxide quantum dots. Carbon, 2013, 63, 537-546.	10.3	66
40	Doping of <scp><scp>TiO</scp></scp>₂â€“<scp><scp>GO</scp></scp> and <scp><scp>TiO</scp></scp>₂â€“r<scp><scp>GO</scp></scp> with Noble Metals: Synthesis, Characterization and Photocatalytic Performance for Azo Dye Discoloration. Photochemistry and Photobiology, 2013, 89, 1038-1046.	2.5	31
41	Feasible Synthesis of TiO₂ Deposited on Kaolin for Photocatalytic Applications. Clays and Clay Minerals, 2013, 61, 165-176.	1.3	13
42	TiO2-graphene oxide nanocomposite as advanced photocatalytic materials. Chemistry Central Journal, 2013, 7, 41.	2.6	215
43	Decontamination of Sulfur Mustard from Printed Circuit Board Using Zr-Doped Titania Suspension. Industrial & Engineering Chemistry Research, 2013, 52, 3436-3440.	3.7	14
44	Strongly luminescent monolayered MoS2 prepared by effective ultrasound exfoliation. Nanoscale, 2013, 5, 3387.	5.6	231
45	Structural and photocatalytic characteristics of TiO2 coatings produced by various thermal spray techniques. Journal of Advanced Ceramics, 2013, 2, 218-226.	17.4	13
46	Impact of Ge⁴⁺Ion as Structural Dopant of Ti⁴⁺in Anatase: Crystallographic Translation, Photocatalytic Behavior, and Efficiency under UV and VIS Irradiation. Journal of Nanomaterials, 2012, 2012, 1-11.	2.7	8
47	Ge4+ doped TiO2 for stoichiometric degradation of warfare agents. Journal of Hazardous Materials, 2012, 227-228, 62-67.	12.4	40
48	Preparation of Graphene by Using an Intense Cavitation Field in a Pressurized Ultrasonic Reactor. Chemistry - A European Journal, 2012, 18, 14047-14054.	3.3	41
49	Hydrogen peroxide route to Sn-doped titania photocatalysts. Chemistry Central Journal, 2012, 6, 113.	2.6	27
50	Mesoporous ironâ€“manganese oxides for sulphur mustard and soman degradation. Materials Research Bulletin, 2012, 47, 4291-4299.	5.2	18
51	In³⁺â€doped TiO₂ and TiO₂/In₂S₃ Nanocomposite for Photocatalytic and Stoichiometric Degradations. Photochemistry and Photobiology, 2012, 88, 265-276.	2.5	34
52	Plasma sprayed TiO2: The influence of power of an electric supply on relations among stoichiometry, surface state and photocatalytic decomposition of acetone. Ceramics International, 2012, 38, 3453-3458.	4.8	13
53	Mesoporous manganese oxide for warfare agents degradation. Microporous and Mesoporous Materials, 2012, 156, 224-232.	4.4	51
54	Microstructure and performance of titanium oxide coatings sprayed by oxygen-acetylene flame. Photochemical and Photobiological Sciences, 2011, 10, 403-407.	2.9	4

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55	TiO₂â€"Graphene Nanocomposite as High Performace Photocatalysts. Journal of Physical Chemistry C, 2011, 115, 25209-25218.	3.1	216
56	New Generation Photocatalysts: How Tungsten Influences the Nanostructure and Photocatalytic Activity of TiO₂ in the UV and Visible Regions. ACS Applied Materials & Interfaces, 2011, 3, 4014-4023.	8.0	37
57	Sulphur mustard degradation on zirconium doped Tiâ€"Fe oxides. Journal of Hazardous Materials, 2011, 192, 1491-1504.	12.4	37
58	Photoactivity of brookiteâ€"rutile TiO2 nanocrystalline mixtures obtained by heat treatment of hydrothermally prepared brookite. Materials Chemistry and Physics, 2011, 129, 794-801.	4.0	46
59	Mesoporous titaniumâ€"manganese dioxide for sulphur mustard and soman decontamination. Materials Research Bulletin, 2011, 46, 2050-2056.	5.2	34
60	Se and Te-modified titania for photocatalytic applications. Journal of Materials Science, 2011, 46, 3523-3536.	3.7	20
61	TiO₂/ZnS/CdS Nanocomposite for Hydrogen Evolution and Orange II Dye Degradation. International Journal of Photoenergy, 2011, 2011, 1-14.	2.5	9
62	The Simplest Way to Iodine-Doped Anatase for Photocatalysts Activated by Visible Light. International Journal of Photoenergy, 2011, 2011, 1-13.	2.5	28
63	Bactericidal effects of reactive thermal plasma synthesized titanium dioxide photocatalysts. Journal of Physics: Conference Series, 2010, 208, 012143.	0.4	1
64	Zirconium doped nano-dispersed oxides of Fe, Al and Zn for destruction of warfare agents. Materials Characterization, 2010, 61, 1080-1088.	4.4	45
65	Niobium and tantalum doped titania particles. Journal of Materials Research, 2010, 25, 2015-2024.	2.6	13
66	Photocatalytic Activity of Boron-Modified Titania under UV and Visible-Light Illumination. ACS Applied Materials & Interfaces, 2010, 2, 575-580.	8.0	53
67	Molybdenum-Doped Anatase and Its Extraordinary Photocatalytic Activity in the Degradation of Orange II in the UV and vis Regions. Journal of Physical Chemistry C, 2010, 114, 19308-19317.	3.1	144
68	Photocatalytic degradation of acetone and butane on mesoporous titania layers. New Journal of Chemistry, 2010, 34, 1999.	2.8	18
69	Preparation and photocatalytic activity of rare earth doped TiO2 nanoparticles. Materials Chemistry and Physics, 2009, 114, 217-226.	4.0	486
70	Photodegradation of DMMP and CEES on zirconium doped titania nanoparticles. Applied Catalysis B: Environmental, 2009, 92, 401-410.	20.2	49
71	Effect of sample preparation and humidity on the photodegradation rate of CEES on pure and Zn doped anatase TiO2 nanoparticles prepared by homogeneous hydrolysis. Applied Catalysis B: Environmental, 2009, 88, 194-203.	20.2	27
72	Efficient gas phase photodecomposition of acetone by Ru-doped Titania. Applied Catalysis B: Environmental, 2009, 89, 613-619.	20.2	46

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73	Photocatalytic properties of Ru-doped titania prepared by homogeneous hydrolysis. Open Chemistry, 2009, 7, 259-266.	1.9	9
74	Photoactive materials prepared by homogeneous hydrolysis with thioacetamide: Part 2â€"TiO2/ZnO nanocomposites. Journal of Physics and Chemistry of Solids, 2008, 69, 1623-1631.	4.0	29
75	Visible-light photocatalytic activity of TiO2/ZnS nanocomposites prepared by homogeneous hydrolysis. Microporous and Mesoporous Materials, 2008, 110, 370-378.	4.4	96
76	Optically Transparent Titanium Dioxide Particles Incorporated in Poly(hydroxyethyl methacrylate) Thin Layers. Journal of Physical Chemistry C, 2008, 112, 19979-19985.	3.1	28
77	Zinc Oxide Prepared by Homogeneous Hydrolysis with Thioacetamide, Its Destruction of Warfare Agents, and Photocatalytic Activity. Journal of Physical Chemistry A, 2007, 111, 4215-4221.	2.5	64
78	Nanostructure materials for destruction of warfare agents and eco-toxins prepared by homogeneous hydrolysis with thioacetamide: Part 1â€"zinc oxide. Journal of Physics and Chemistry of Solids, 2007, 68, 716-720.	4.0	19
79	Nanodispersive mixed oxides for destruction of warfare agents prepared by homogeneous hydrolysis with urea. Journal of Physics and Chemistry of Solids, 2007, 68, 707-711.	4.0	19
80	Preparation, characterization and photocatalytic activity of optically transparent titanium dioxide particles. Materials Chemistry and Physics, 2007, 105, 38-46.	4.0	21
81	Preparation and characterization of titania based nanowires. Journal of Nanoparticle Research, 2007, 9, 455-470.	1.9	7
82	Synthesis of spherical metal oxide particles using homogeneous precipitation of aqueous solutions of metal sulfates with urea. Powder Technology, 2006, 169, 33-40.	4.2	61
83	Photoactivity of anataseâ€"rutile TiO2 nanocrystalline mixtures obtained by heat treatment of homogeneously precipitated anatase. Applied Catalysis B: Environmental, 2005, 58, 193-202.	20.2	330
84	Magnesium Oxide Nanoparticles as Destructive Sorbent for Toxic Agents. Microscopy and Microanalysis, 2004, 10, 476-477.	0.4	8
85	The effect of thermal treatment on the properties of TiO2 photocatalyst. Materials Chemistry and Physics, 2004, 86, 333-339.	4.0	60
86	Aerogel nanoscale magnesium oxides as a destructive sorbent for toxic chemical agents. Open Chemistry, 2004, 2, 16-33.	1.9	11
87	The preparation and characteristics of pigments based on mica coated with metal oxides. Dyes and Pigments, 2003, 58, 239-244.	3.7	59
88	Homogenous Precipitation with Urea â€" an Easy Process for Making Spherical Hydrous Metal Oxides. Solid State Phenomena, 2003, 90-91, 121-128.	0.3	17
89	Title is missing!. Macromolecular Symposia, 2002, 187, 367-376.	0.7	4