

# VÃ¡clav Å tengl

## List of Publications by Year in descending order

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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	Preparation and photocatalytic activity of rare earth doped TiO <sub>2</sub> nanoparticles. <i>Materials Chemistry and Physics</i> , 2009, 114, 217-226.	4.0	486
2	Photoactivity of anatase-rutile TiO <sub>2</sub> nanocrystalline mixtures obtained by heat treatment of homogeneously precipitated anatase. <i>Applied Catalysis B: Environmental</i> , 2005, 58, 193-202.	20.2	330
3	Determination of amino groups on functionalized graphene oxide for polyurethane nanomaterials: XPS quantitation vs. functional speciation. <i>RSC Advances</i> , 2017, 7, 12464-12473.	3.6	271
4	Strongly luminescent monolayered MoS <sub>2</sub> prepared by effective ultrasound exfoliation. <i>Nanoscale</i> , 2013, 5, 3387.	5.6	231
5	TiO <sub>2</sub> -Graphene Nanocomposite as High Performace Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25209-25218.	3.1	216
6	TiO <sub>2</sub> -graphene oxide nanocomposite as advanced photocatalytic materials. <i>Chemistry Central Journal</i> , 2013, 7, 41.	2.6	215
7	Molybdenum-Doped Anatase and Its Extraordinary Photocatalytic Activity in the Degradation of Orange II in the UV and vis Regions. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19308-19317.	3.1	144
8	Cerium dioxide as a new reactive sorbent for fast degradation of parathion methyl and some other organophosphates. <i>Journal of Rare Earths</i> , 2014, 32, 360-370.	4.8	105
9	Visible-light photocatalytic activity of TiO <sub>2</sub> /ZnS nanocomposites prepared by homogeneous hydrolysis. <i>Microporous and Mesoporous Materials</i> , 2008, 110, 370-378.	4.4	96
10	Blue and green luminescence of reduced graphene oxide quantum dots. <i>Carbon</i> , 2013, 63, 537-546.	10.3	66
11	Zinc Oxide Prepared by Homogeneous Hydrolysis with Thioacetamide, Its Destruction of Warfare Agents, and Photocatalytic Activity. <i>Journal of Physical Chemistry A</i> , 2007, 111, 4215-4221.	2.5	64
12	Synthesis of spherical metal oxide particles using homogeneous precipitation of aqueous solutions of metal sulfates with urea. <i>Powder Technology</i> , 2006, 169, 33-40.	4.2	61
13	The effect of thermal treatment on the properties of TiO <sub>2</sub> photocatalyst. <i>Materials Chemistry and Physics</i> , 2004, 86, 333-339.	4.0	60
14	The preparation and characteristics of pigments based on mica coated with metal oxides. <i>Dyes and Pigments</i> , 2003, 58, 239-244.	3.7	59
15	Ultrasound exfoliation of inorganic analogues of graphene. <i>Nanoscale Research Letters</i> , 2014, 9, 167.	5.7	58
16	Effect of preparation procedure on the formation of nanostructured ceria-zirconia mixed oxide catalysts for ethyl acetate oxidation: Homogeneous precipitation with urea vs template-assisted hydrothermal synthesis. <i>Applied Catalysis A: General</i> , 2015, 502, 418-432.	4.3	56
17	Cerium oxide for the destruction of chemical warfare agents: A comparison of synthetic routes. <i>Journal of Hazardous Materials</i> , 2016, 304, 259-268.	12.4	54
18	Photocatalytic Activity of Boron-Modified Titania under UV and Visible-Light Illumination. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 575-580.	8.0	53

#	ARTICLE	IF	CITATIONS
19	Mesoporous manganese oxide for warfare agents degradation. Microporous and Mesoporous Materials, 2012, 156, 224-232.	4.4	51
20	Photodegradation of DMMP and CEES on zirconium doped titania nanoparticles. Applied Catalysis B: Environmental, 2009, 92, 401-410.	20.2	49
21	Efficient gas phase photodecomposition of acetone by Ru-doped Titania. Applied Catalysis B: Environmental, 2009, 89, 613-619.	20.2	46
22	Photoactivity of brookiteâ€rutile TiO <sub>2</sub> nanocrystalline mixtures obtained by heat treatment of hydrothermally prepared brookite. Materials Chemistry and Physics, 2011, 129, 794-801.	4.0	46
23	Zirconium doped nano-dispersed oxides of Fe, Al and Zn for destruction of warfare agents. Materials Characterization, 2010, 61, 1080-1088.	4.4	45
24	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
25	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
26	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
27	Ge <sup>4+</sup> doped TiO <sub>2</sub> for stoichiometric degradation of warfare agents. Journal of Hazardous Materials, 2012, 227-228, 62-67.	12.4	40
28	New Generation Photocatalysts: How Tungsten Influences the Nanostructure and Photocatalytic Activity of TiO <sub>2</sub> in the UV and Visible Regions. ACS Applied Materials & Interfaces, 2011, 3, 4014-4023.	8.0	37
29	Sulphur mustard degradation on zirconium doped Tiâ€Fe oxides. Journal of Hazardous Materials, 2011, 192, 1491-1504.	12.4	37
30	Degradation of organophosphorus pesticide parathion methyl on nanostructured titania-iron mixed oxides. Applied Surface Science, 2015, 344, 9-16.	6.1	35
31	Mesoporous titaniumâ€manganese dioxide for sulphur mustard and soman decontamination. Materials Research Bulletin, 2011, 46, 2050-2056.	5.2	34
32	In <sup>3+</sup> doped TiO <sub>2</sub> and TiO <sub>2</sub> /In <sub>2</sub> S <sub>3</sub> Nanocomposite for Photocatalytic and Stoichiometric Degradations. Photochemistry and Photobiology, 2012, 88, 265-276.	2.5	34
33	Ultrasonic preparation of tungsten disulfide single-layers and quantum dots. RSC Advances, 2015, 5, 89612-89620.	3.6	34
34	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
35	Doping of TiO <sub>2</sub> and TiO <sub>2</sub> â€GO and TiO <sub>2</sub> â€rGO with Noble Metals: Synthesis, Characterization and Photocatalytic Performance for Azo Dye Discoloration. Photochemistry and Photobiology, 2013, 89, 1038-1046.	2.5	31
36	Mesoporous manganese oxide for the degradation of organophosphates pesticides. Journal of Materials Science, 2016, 51, 2634-2642.	3.7	31

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37	Photoactive materials prepared by homogeneous hydrolysis with thioacetamide: Part 2 "TiO <sub>2</sub> /ZnO nanocomposites. Journal of Physics and Chemistry of Solids, 2008, 69, 1623-1631.	4.0	29
38	Optically Transparent Titanium Dioxide Particles Incorporated in Poly(hydroxyethyl methacrylate) Thin Layers. Journal of Physical Chemistry C, 2008, 112, 19979-19985.	3.1	28
39	The Simplest Way to Iodine-Doped Anatase for Photocatalysts Activated by Visible Light. International Journal of Photoenergy, 2011, 2011, 1-13.	2.5	28
40	h-BN-TiO <sub>2</sub> Nanocomposite for Photocatalytic Applications. Journal of Nanomaterials, 2016, 2016, 1-12.	2.7	28
41	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
42	Effect of sample preparation and humidity on the photodegradation rate of CEES on pure and Zn doped anatase TiO <sub>2</sub> nanoparticles prepared by homogeneous hydrolysis. Applied Catalysis B: Environmental, 2009, 88, 194-203.	20.2	27
43	Hydrogen peroxide route to Sn-doped titania photocatalysts. Chemistry Central Journal, 2012, 6, 113.	2.6	27
44	Graphene oxide/MnO <sub>2</sub> nanocomposite as destructive adsorbent of nerve-agent simulants in aqueous media. Applied Surface Science, 2017, 412, 19-28.	6.1	25
45	Quantitative determination of acidic groups in functionalized graphene by direct titration. Reactive and Functional Polymers, 2016, 103, 44-53.	4.1	24
46	Chemical warfare agent simulant DMMP reactive adsorption on TiO <sub>2</sub> /graphene oxide composites prepared via titanium peroxo-complex or urea precipitation. Journal of Hazardous Materials, 2018, 359, 482-490.	12.4	23
47	Preparation, characterization and photocatalytic activity of optically transparent titanium dioxide particles. Materials Chemistry and Physics, 2007, 105, 38-46.	4.0	21
48	Se and Te-modified titania for photocatalytic applications. Journal of Materials Science, 2011, 46, 3523-3536.	3.7	20
49	Nanostructure materials for destruction of warfare agents and eco-toxins prepared by homogeneous hydrolysis with thioacetamide: Part 1 "zinc oxide. Journal of Physics and Chemistry of Solids, 2007, 68, 716-720.	4.0	19
50	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
51	Composite pigments based on surface coated kaolin and metakaolin. Applied Clay Science, 2014, 101, 149-158.	5.2	19
52	Photocatalytic degradation of acetone and butane on mesoporous titania layers. New Journal of Chemistry, 2010, 34, 1999.	2.8	18
53	Mesoporous iron "manganese oxides for sulphur mustard and soman degradation. Materials Research Bulletin, 2012, 47, 4291-4299.	5.2	18
54	Doping of Zinc Oxide with Selected First Row Transition Metals for Photocatalytic Applications. Photochemistry and Photobiology, 2015, 91, 1071-1077.	2.5	18

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55	ZnO/Bi <sub>2</sub> O <sub>3</sub> nanowire composites as a new family of photocatalysts. Powder Technology, 2015, 270, 83-91.	4.2	18
56	Homogenous Precipitation with Urea – an Easy Process for Making Spherical Hydrated Metal Oxides. Solid State Phenomena, 2003, 90-91, 121-128.	0.3	17
57	Decontamination of Sulfur Mustard from Printed Circuit Board Using Zr-Doped Titania Suspension. Industrial & Engineering Chemistry Research, 2013, 52, 3436-3440.	3.7	14
58	Niobium and tantalum doped titania particles. Journal of Materials Research, 2010, 25, 2015-2024.	2.6	13
59	Plasma sprayed TiO <sub>2</sub> : 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
60	Feasible Synthesis of TiO <sub>2</sub> Deposited on Kaolin for Photocatalytic Applications. Clays and Clay Minerals, 2013, 61, 165-176.	1.3	13
61	Structural and photocatalytic characteristics of TiO <sub>2</sub> coatings produced by various thermal spray techniques. Journal of Advanced Ceramics, 2013, 2, 218-226.	17.4	13
62	Solar light decomposition of warfare agent simulant DMMP on TiO <sub>2</sub> /graphene oxide nanocomposites. Catalysis Science and Technology, 2019, 9, 1816-1824.	4.1	13
63	Iron modified titanium-hafnium binary oxides as catalysts in total oxidation of ethyl acetate. Catalysis Communications, 2016, 81, 14-19.	3.3	12
64	Photocatalytic activity of Sn-doped ZnO synthesized via peroxide route. Journal of Physics and Chemistry of Solids, 2022, 160, 110340.	4.0	12
65	Aerogel nanoscale magnesium oxides as a destructive sorbent for toxic chemical agents. Open Chemistry, 2004, 2, 16-33.	1.9	11
66	Role of bismuth in nano-structured doped TiO <sub>2</sub> photocatalyst prepared by environmentally benign soft synthesis. Journal of Materials Science, 2014, 49, 3560-3571.	3.7	11
67	Chemical degradation of trimethyl phosphate as surrogate for organo-phosphorus pesticides on nanostructured metal oxides. Materials Research Bulletin, 2015, 61, 259-269.	5.2	11
68	Nanostructured Metal Oxides for Stoichiometric Degradation of Chemical Warfare Agents. Reviews of Environmental Contamination and Toxicology, 2016, 236, 239-258.	1.3	10
69	Synthesis and characterization of TiO <sub>2</sub> /Mg(OH) <sub>2</sub> composites for catalytic degradation of CWA surrogates. RSC Advances, 2020, 10, 19542-19552.	3.6	10
70	Photocatalytic properties of Ru-doped titania prepared by homogeneous hydrolysis. Open Chemistry, 2009, 7, 259-266.	1.9	9
71	TiO <sub>2</sub> /ZnS/CdS Nanocomposite for Hydrogen Evolution and Orange II Dye Degradation. International Journal of Photoenergy, 2011, 2011, 1-14.	2.5	9
72	Graphene oxide nanoparticle attachment and its toxicity on living lung epithelial cells. RSC Advances, 2015, 5, 59447-59457.	3.6	9

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73	Magnesium Oxide Nanoparticles as Destructive Sorbent for Toxic Agents. <i>Microscopy and Microanalysis</i> , 2004, 10, 476-477.	0.4	8
74	Impact of Ge <sup>4+</sup> Ion as Structural Dopant of Ti <sup>4+</sup> in Anatase: Crystallographic Translation, Photocatalytic Behavior, and Efficiency under UV and VIS Irradiation. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-11.	2.7	8
75	Anthracycline antibiotics derivate mitoxantroneâ€™ Destructive sorption and photocatalytic degradation. <i>PLoS ONE</i> , 2018, 13, e0193116.	2.5	8
76	Preparation and characterization of titania based nanowires. <i>Journal of Nanoparticle Research</i> , 2007, 9, 455-470.	1.9	7
77	A new possible way of anthracycline cytostatics decontamination. <i>New Journal of Chemistry</i> , 2017, 41, 3975-3985.	2.8	7
78	From the Decomposition of Chemical Warfare Agents to the Decontamination of Cytostatics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 2114-2122.	3.7	7
79	Photocatalytic oxidation of butane by titania after reductive annealing. <i>Journal of Materials Science</i> , 2014, 49, 4161-4170.	3.7	6
80	<i>In Situ</i> FTIR Spectroscopy Study of the Photodegradation of Acetaldehyde and azo Dye Photobleaching on Bismuthâ€™ Modified TiO <sub>2</sub> . <i>Photochemistry and Photobiology</i> , 2015, 91, 48-58.	2.5	6
81	Graphene oxide â€™ mesoporous Î-MnO <sub>2</sub> nanocomposite as a novel destructive sorbent. <i>Materials Today: Proceedings</i> , 2016, 3, 2795-2806.	1.8	6
82	Titania and zirconia binary oxides as catalysts for total oxidation of ethyl acetate and methanol decomposition. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 2540-2550.	6.7	6
83	Title is missing!. <i>Macromolecular Symposia</i> , 2002, 187, 367-376.	0.7	4
84	Microstructure and performance of titanium oxide coatings sprayed by oxygen-acetylene flame. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 403-407.	2.9	4
85	Fast and Straightforward Synthesis of Luminescent Titanium(IV) Dioxide Quantum Dots. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-9.	2.7	3
86	Safe decontamination of cytostatics from the nitrogen mustards family. Part one: cyclophosphamide and ifosfamide. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 7971-7985.	6.7	3
87	Improvement of Orange II Photobleaching by Moderate Ga <sup>3+</sup> Doping of Titania and Detrimental Effect of Structural Disorder on Ga Overloading. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-11.	2.7	2
88	Bactericidal effects of reactive thermal plasma synthesized titanium dioxide photocatalysts. <i>Journal of Physics: Conference Series</i> , 2010, 208, 012143.	0.4	1
89	Removal of anthracycline cytostatics from aquatic environment: Comparison of nanocrystalline titanium dioxide and decontamination agents. <i>PLoS ONE</i> , 2019, 14, e0223117.	2.5	1