

BoÅ½ena Czech

List of Publications by Year in descending order

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52
papers

1,341
citations

331259

21
h-index

377514

34
g-index

52
all docs

52
docs citations

52
times ranked

1718
citing authors

#	ARTICLE	IF	CITATIONS
1	The antioxidant defense responses of <i>Hordeum vulgare</i> L. to polycyclic aromatic hydrocarbons and their derivatives in biochar-amended soil. <i>Environmental Pollution</i> , 2022, 294, 118664.	3.7	8
2	Application of the engineered sewage sludge-derived biochar to minimize water eutrophication by removal of ammonium and phosphate ions from water. <i>Journal of Cleaner Production</i> , 2022, 331, 129994.	4.6	26
3	Facemask Global Challenges: The Case of Effective Synthesis, Utilization, and Environmental Sustainability. <i>Sustainability</i> , 2022, 14, 737.	1.6	15
4	Detoxifying SARS-CoV-2 antiviral drugs from model and real wastewaters by industrial waste-derived multiphase photocatalysts. <i>Journal of Hazardous Materials</i> , 2022, 429, 128300.	6.5	16
5	Revealing the toxicity of lopinavir- and ritonavir-containing water and wastewater treated by photo-induced processes to <i>Danio rerio</i> and <i>Allivibrio fischeri</i> . <i>Science of the Total Environment</i> , 2022, 824, 153967.	3.9	12
6	Screen-Printed Voltammetric Sensors – Tools for Environmental Water Monitoring of Painkillers. <i>Sensors</i> , 2022, 22, 2437.	2.1	14
7	Low bioavailability of derivatives of polycyclic aromatic hydrocarbons in biochar obtained from different feedstock. <i>Environmental Research</i> , 2022, 214, 113787.	3.7	9
8	Engineered biochars from organic wastes for the adsorption of diclofenac, naproxen and triclosan from water systems. <i>Journal of Cleaner Production</i> , 2021, 288, 125686.	4.6	73
9	Sustainable synthesis of rose flower-like magnetic biochar from tea waste for environmental applications. <i>Journal of Advanced Research</i> , 2021, 34, 13-27.	4.4	22
10	Transcriptional and biochemical response of barley to co-exposure of metal-based nanoparticles. <i>Science of the Total Environment</i> , 2021, 782, 146883.	3.9	13
11	Occurrence and toxicity of polycyclic aromatic hydrocarbons derivatives in environmental matrices. <i>Science of the Total Environment</i> , 2021, 788, 147738.	3.9	74
12	Sewage sludge and solid residues from biogas production derived biochar as an effective bio-waste adsorbent of fulvic acids from water or wastewater. <i>Chemosphere</i> , 2021, 278, 130447.	4.2	22
13	Formation of polycyclic aromatic hydrocarbons and their derivatives in biochars: The effect of feedstock and pyrolysis conditions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 160, 105339.	2.6	19
14	Structural, optical and catalytic properties of ZnO-SiO ₂ colored powders with the visible light-driven activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 421, 113532.	2.0	6
15	Sorption of pharmaceuticals and personal care products (PPCPs) onto a sustainable cotton based adsorbent. <i>Sustainable Chemistry and Pharmacy</i> , 2020, 18, 100324.	1.6	16
16	Ultrafast microwave assisted development of magnetic carbon microtube from cotton waste for wastewater treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 606, 125449.	2.3	15
17	Effective photocatalytic removal of selected pharmaceuticals and personal care products by elmoreite/tungsten oxide@ZnS photocatalyst. <i>Journal of Environmental Management</i> , 2020, 270, 110870.	3.8	24
18	SnO ₂ @ZnS photocatalyst with enhanced photocatalytic activity for the degradation of selected pharmaceuticals and personal care products in model wastewater. <i>Journal of Alloys and Compounds</i> , 2020, 827, 154339.	2.8	64

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19	Impact of ZnO and ZnS nanoparticles in sewage sludge-amended soil on bacteria, plant and invertebrates. <i>Chemosphere</i> , 2019, 237, 124359.	4.2	25
20	Application of different carrying gases and ratio between sewage sludge and willow for engineered (smart) biochar production. <i>Journal of CO2 Utilization</i> , 2019, 29, 20-28.	3.3	56
21	Carbon dioxide as a carrier gas and biomass addition decrease the total and bioavailable polycyclic aromatic hydrocarbons in biochar produced from sewage sludge. <i>Chemosphere</i> , 2019, 228, 26-34.	4.2	36
22	Caffeine hinders the decomposition of acetaminophen over TiO ₂ -SiO ₂ nanocomposites containing carbon nanotubes irradiated by visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 376, 166-174.	2.0	9
23	Adsorption capacity of phenanthrene and pyrene to engineered carbon-based adsorbents produced from sewage sludge or sewage sludge-biomass mixture in various gaseous conditions. <i>Bioresource Technology</i> , 2019, 280, 421-429.	4.8	52
24	Sustainable carbon microtube derived from cotton waste for environmental applications. <i>Chemical Engineering Journal</i> , 2019, 361, 1605-1616.	6.6	32
25	The light enhanced removal of Bisphenol A from wastewater using cotton waste derived carbon microtubes. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 425-432.	5.0	27
26	Sustainable periodically patterned carbon nanotube for environmental application: Introducing the cheetah skin structure. <i>Journal of Cleaner Production</i> , 2018, 179, 429-440.	4.6	23
27	Application of biochar to sewage sludge reduces toxicity and improve organisms growth in sewage sludge-amended soil in long term field experiment. <i>Science of the Total Environment</i> , 2018, 625, 8-15.	3.9	75
28	Visible-light-driven photocatalytic removal of acetaminophen from water using a novel MWCNT-TiO ₂ -SiO ₂ photocatalysts. <i>Separation and Purification Technology</i> , 2018, 206, 343-355.	3.9	49
29	Impact of thermal treatment of calcium silicate-rich slag on the removal of cadmium from aqueous solution. <i>Journal of Cleaner Production</i> , 2018, 200, 369-379.	4.6	13
30	The effect of MWCNT treatment by H ₂ O ₂ and/or UV on fulvic acids sorption. <i>Environmental Research</i> , 2017, 155, 1-6.	3.7	11
31	Development simple and sensitive voltammetric procedure for ultra-trace determination of U(VI). <i>Talanta</i> , 2017, 165, 474-481.	2.9	15
32	Synthesis and properties of zinc oxide photocatalyst by high-temperature processing of resorcinol-formaldehyde/zinc acetate mixture. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 334, 36-46.	2.0	20
33	The sorption of the nonsteroidal anti-inflammatory drugs diclofenac and naproxen onto UV and/or H ₂ O ₂ treated MWCNT-COOH and MWCNT-OH. <i>RSC Advances</i> , 2016, 6, 110383-110392.	1.7	9
34	Multicomponent nanocomposites for elimination of diclofenac in water based on an amorphous TiO ₂ active in various light sources. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 330, 64-70.	2.0	19
35	The interactions of UV and/or H ₂ O ₂ treated CNTOH and CNTCOOH with environmental fulvic acids. <i>Environmental Research</i> , 2016, 150, 173-181.	3.7	4
36	UVA- and visible-light-driven photocatalytic activity of three-layer perovskite Dion-Jacobson phase CsBa ₂ M ₃ O ₁₀ (M=Ta, Nb) and oxynitride crystals in the removal of caffeine from model wastewater. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 324, 70-80.	2.0	13

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37	Sorption of diclofenac and naproxen onto MWCNT in model wastewater treated by H ₂ O ₂ and/or UV. <i>Chemosphere</i> , 2016, 149, 272-278.	4.2	41
38	Titania-coated nanosilica-cobalt ferrite composites: Structure and photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 319-320, 40-52.	2.0	12
39	Photocatalytic Activity of SnO ₂ -Doped SiO ₂ @TiO ₂ Nanocomposites. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2015, , 255-264.	0.5	0
40	Photocatalytic treatment of pharmaceutical wastewater using new multiwall-carbon nanotubes/TiO ₂ /SiO ₂ nanocomposites. <i>Environmental Research</i> , 2015, 137, 176-184.	3.7	89
41	Advanced oxidation (H ₂ O ₂ and/or UV) of functionalized carbon nanotubes (CNT-OH and CNT-COOH) and its influence on the stabilization of CNTs in water and tannic acid solution. <i>Environmental Pollution</i> , 2015, 200, 161-167.	3.7	29
42	Water treatment by H ₂ O ₂ and/or UV affects carbon nanotube (CNT) properties and fate in water and tannic acid solution. <i>Environmental Science and Pollution Research</i> , 2015, 22, 20198-20206.	2.7	11
43	MWCNT-TiO ₂ -SiO ₂ nanocomposites possessing the photocatalytic activity in UVA and UVC. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 564-572.	10.8	35
44	Ecotoxicological evaluation of selected pharmaceuticals to <i>Vibrio fischeri</i> and <i>Daphnia magna</i> before and after photooxidation process. <i>Ecotoxicology and Environmental Safety</i> , 2014, 104, 247-253.	2.9	51
45	TiO ₂ -assisted photocatalytic degradation of diclofenac, metoprolol, estrone and chloramphenicol as endocrine disruptors in water. <i>Adsorption</i> , 2013, 19, 619-630.	1.4	70
46	The application of biodegradable chelates in the preparation of Ni-TiO ₂ /Al ₂ O ₃ photocatalysts by the Double Impregnation Method. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 260, 14-23.	2.0	2
47	Preparation and characterization of C,N-codoped TiO ₂ photocatalyst for the degradation of diclofenac from wastewater. <i>Water Science and Technology</i> , 2013, 68, 1322-1328.	1.2	24
48	Advanced Oxidation Processes in Triton X-100 and Wash-up Liquid Removal from Wastewater Using Modified TiO ₂ /Al ₂ O ₃ Photocatalysts. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 4813-4822.	1.1	10
49	Surfactants removal from water and wastewater using Co modified TiO ₂ /Al ₂ O ₃ photocatalysts. <i>Annales Universitatis Mariae Curie-Skłodowska Sectio AA Chemia</i> , 2011, 66, .	0.2	2
50	Artificial photosynthesis - CO ₂ towards methanol. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 19, 012010.	0.3	11
51	Removal of recalcitrant pollutants from wastewater. <i>Applied Surface Science</i> , 2010, 256, 5434-5438.	3.1	14
52	Band reactor for toxic and recalcitrant water contaminants. <i>Polish Journal of Chemical Technology</i> , 2007, 9, 18-20.	0.3	4