

# Ivana GrÄiÄ

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

998  
citations

394286

19  
h-index

434063

31  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1358  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering and modeling perspectives on photocatalytic reactors for water treatment. <i>Water Research</i> , 2021, 202, 117421.	5.3	94
2	Six-flux absorption-scattering models for photocatalysis under wide-spectrum irradiation sources in annular and flat reactors using catalysts with different optical properties. <i>Applied Catalysis B: Environmental</i> , 2017, 211, 222-234.	10.8	67
3	Photocatalytic Degradation of Water Contaminants in Multiple Photoreactors and Evaluation of Reaction Kinetic Constants Independent of Photon Absorption, Irradiance, Reactor Geometry, and Hydrodynamics. <i>Environmental Science &amp; Technology</i> , 2013, 47, 13702-13711.	4.6	64
4	Black TiO <sub>2</sub> nanotube arrays decorated with Ag nanoparticles for enhanced visible-light photocatalytic oxidation of salicylic acid. <i>Journal of Alloys and Compounds</i> , 2019, 776, 883-896.	2.8	60
5	Zero-valent iron (ZVI) Fenton oxidation of reactive dye wastewater under UV-C and solar irradiation. <i>Chemical Engineering Journal</i> , 2012, 195-196, 77-90.	6.6	50
6	Minimization of organic content in simulated industrial wastewater by Fenton type processes: A case study. <i>Journal of Hazardous Materials</i> , 2009, 170, 954-961.	6.5	48
7	Modeling the mineralization and discoloration in colored systems by (US)Fe <sup>2+</sup> /H <sub>2</sub> O <sub>2</sub> /S <sub>2</sub> O <sub>8</sub> <sup>2-</sup> processes: A proposed degradation pathway. <i>Chemical Engineering Journal</i> , 2010, 157, 35-44.	6.6	45
8	Sono-Fenton oxidation of formic acid/formate ions in an aqueous solution: From an experimental design to the mechanistic modeling. <i>Chemical Engineering Journal</i> , 2010, 164, 196-207.	6.6	43
9	Isotherm, kinetic, and thermodynamic study of ciprofloxacin sorption on sediments. <i>Environmental Science and Pollution Research</i> , 2017, 24, 10091-10106.	2.7	42
10	Kinetic modeling and synergy quantification in sono and photooxidative treatment of simulated dyehouse effluent. <i>Water Research</i> , 2012, 46, 5683-5695.	5.3	39
11	Purification of household greywater loaded with hair colorants by solar photocatalysis using TiO <sub>2</sub> -coated textile fibers coupled flocculation with chitosan. <i>Journal of Water Process Engineering</i> , 2015, 5, 15-27.	2.6	33
12	Identification and Location of Iron Species in Fe/SBA-15 Catalysts: Interest for Catalytic Fenton Reactions. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3437-3448.	1.5	29
13	Photocatalytic degradation of imidacloprid in the flat-plate photoreactor under UVA and simulated solar irradiance conditions—The influence of operating conditions, kinetics and degradation pathway. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105611.	3.3	29
14	The kinetics and efficiency of UV assisted advanced oxidation of various types of commercial organic dyes in water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 273, 49-58.	2.0	28
15	The use of D-optimal design to model the effects of process parameters on mineralization and discoloration kinetics of Fenton-type oxidation. <i>Chemical Engineering Journal</i> , 2010, 157, 408-419.	6.6	27
16	Treatment of organic pollutants in water using TiO <sub>2</sub> powders: photocatalysis versus sonocatalysis. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2013, 109, 335-354.	0.8	26
17	Evaluation of atrazine degradation in UV/FeZSM-5/H <sub>2</sub> O <sub>2</sub> system using factorial experimental design. <i>Chemical Engineering Journal</i> , 2009, 150, 476-484.	6.6	22
18	Low frequency US and UV-A assisted Fenton oxidation of simulated dyehouse wastewater. <i>Journal of Hazardous Materials</i> , 2011, 197, 272-284.	6.5	21

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19	Global parameter of ultrasound exploitation (GPUE) in the reactors for wastewater treatment by sono-Fenton oxidation. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 270-279.	3.8	19
20	Monitoring of total metal concentration in sludge samples: Case study for the mechanicalâ€“biological wastewater treatment plant in Velika Gorica, Croatia. <i>Science of the Total Environment</i> , 2013, 447, 17-24.	3.9	17
21	Mineralization of <i>p</i> -chlorophenol in water solution by AOPs based on UV irradiation. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 27-36.	1.2	16
22	Influence of plasma surface pretreatment and triarylmethane dye on the photocatalytic performance of TiO <sub>2</sub> -chitosan coating on textile. <i>Progress in Organic Coatings</i> , 2017, 105, 277-285.	1.9	16
23	Photocatalytic Activity of TiO <sub>2</sub> Thin Films: Kinetic and Efficiency Study. <i>International Journal of Chemical Reactor Engineering</i> , 2018, 16, .	0.6	12
24	Stable hierarchical ZnO structures for photocatalytic degradation of 2,5-dihydroxybenzoic acid. <i>Materials Science in Semiconductor Processing</i> , 2019, 97, 48-55.	1.9	12
25	Ammonia and methane oxidation on TiO <sub>2</sub> supported on glass fiber mesh under artificial solar irradiation. <i>Environmental Science and Pollution Research</i> , 2021, 28, 18354-18367.	2.7	12
26	Designing Hydrophobicity of the PLA Polymer Blend Surfaces by ICP Etching. <i>Plasma Processes and Polymers</i> , 2016, 13, 869-878.	1.6	11
27	Intensification of Dihydroxybenzenes Degradation over Immobilized TiO <sub>2</sub> Based Photocatalysts under Simulated Solar Light. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7571.	1.3	11
28	Modeling the photocatalytic oxidation of carboxylic acids on aqueous TiO <sub>2</sub> suspensions and on immobilized TiO <sub>2</sub> -chitosan thin films in different reactor geometries irradiated by UVA or UVC light sources. <i>Chemical Engineering Journal</i> , 2021, 422, 130104.	6.6	11
29	Kinetic study of salicylic acid photocatalytic degradation using solâ€“gel anatase thin film with enhanced long-term activity. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017, 120, 385-401.	0.8	10
30	Sonochemical effectiveness factor (eUS) in the reactors for wastewater treatment by sono-Fenton oxidation: Novel considerations. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 1037-1045.	3.8	9
31	Impact of ultrasound application on oxidative desulphurization of diesel fuel and on treatment of resulting wastewater. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 293-299.	1.2	9
32	Low-Cost Synthesis of Cu-Modified Immobilized Nanoporous TiO <sub>2</sub> for Photocatalytic Degradation of 1H-Benzotriazole. <i>Catalysts</i> , 2020, 10, 19.	1.6	8
33	Hydrothermal Synthesis of FeOOH and Fe <sub>2</sub> O <sub>3</sub> Modified Self-Organizing Immobilized TiO <sub>2</sub> Nanotubes for Photocatalytic Degradation of 1H-Benzotriazole. <i>Catalysts</i> , 2020, 10, 1371.	1.6	8
34	Dual Use of Copper-Modified TiO <sub>2</sub> Nanotube Arrays as Material for Photocatalytic NH <sub>3</sub> Degradation and Relative Humidity Sensing. <i>Coatings</i> , 2021, 11, 1500.	1.2	7
35	The utilization of modified alkoxide as a precursor for solvothermal synthesis of nanocrystalline titania. <i>Materials Chemistry and Physics</i> , 2017, 196, 194-204.	2.0	5
36	Degradation of reactive azo dye by UV/peroxodisulfate system: an experimental design approach. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2010, 100, 33.	0.8	4

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37	Removal of Heavy Metals and Pharmaceuticals From Contaminated Water Using Waste Sludge â€“ Kinetics and Mechanisms. <i>Clean - Soil, Air, Water</i> , 2017, 45, 1600509.	0.7	4
38	Recovery of waste expanded polystyrene in lightweight concrete production. <i>Rudarsko Geolosko Naftni Zbornik</i> , 2019, 34, 73-80.	0.2	4
39	WASTE TONER POWDER IN CONCRETE INDUSTRY: AN APPROACH TOWARDS CIRCULAR ECONOMY. <i>Environmental Engineering and Management Journal</i> , 2019, 18, 1897-1906.	0.2	4
40	Novel, Simple and Low-Cost Preparation of Ba-Modified TiO <sub>2</sub> Nanotubes for Diclofenac Degradation under UV/Vis Radiation. <i>Nanomaterials</i> , 2021, 11, 2714.	1.9	4
41	Sonochemical treatment of effluent originating from desulfurization process; validation of predictive models. <i>Applied Acoustics</i> , 2016, 103, 232-238.	1.7	3
42	Enhanced Visible-Light Driven Photocatalytic Activity of Ag@TiO <sub>2</sub> Photocatalyst Prepared in Chitosan Matrix. <i>Catalysts</i> , 2020, 10, 763.	1.6	3
43	Modification of Surface Hydrophobicity of PLA/PE and ABS/PE Polymer Blends by ICP Etching and CF <sub>x</sub> Coating. <i>Materials</i> , 2020, 13, 5578.	1.3	3
44	Photocatalytic activity of synthesized titanate nanotubes and nanoribbons vs. commercial TiO <sub>2</sub> under artificial solar and visible irradiation using 17 $\beta$ -estradiol as model micropollutant. , 0, 67, 300-308.		3
45	Kinetic Study of Thermal Degradation of High-impact Polystyrene Nanocomposites with Different Flame Retardants using Isoconversional and Model Fitting Methods. <i>Croatica Chemica Acta</i> , 2017, 90, .	0.1	3
46	Simulating the wet granulation of TiO <sub>2</sub> photocatalyst in fluidized bed: Population balance modelling and prediction of coalescence rate. <i>Powder Technology</i> , 2021, 379, 1-11.	2.1	2
47	RELIABILITY STUDY OF LABORATORY SCALE WATER TREATMENT BY ADVANCED OXIDATION PROCESSES. <i>Environmental Engineering and Management Journal</i> , 2017, 16, 1-13.	0.2	1
48	The sensitization effect of waste toner powder in the photocatalytic degradation of surfactant sodium dodecylbenzene sulfonate over immobilized TiO <sub>2</sub> â€“chitosan layer under UVC and solar irradiation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2018, 124, 905-930.	0.8	0
49	NanoÅŸenje fotokatalitiÄkih ZnO slojeva na podloge razliÄite geometrije. <i>Kemija U Industriji</i> , 2019, 68, 583-590.	0.2	0