

Hrvoje Kusic

List of Publications by Year in descending order

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76
papers

2,684
citations

218677

26
h-index

197818

49
g-index

78
all docs

78
docs citations

78
times ranked

2959
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of iron activated persulfate oxidation treating reactive azo dye in water matrix. <i>Chemical Engineering Journal</i> , 2011, 172, 109-121.	12.7	182
2	Photo-assisted Fenton type processes for the degradation of phenol: A kinetic study. <i>Journal of Hazardous Materials</i> , 2006, 136, 632-644.	12.4	163
3	Minimization of organic pollutant content in aqueous solution by means of AOPs: UV- and ozone-based technologies. <i>Chemical Engineering Journal</i> , 2006, 123, 127-137.	12.7	159
4	Heterogeneous Fenton type processes for the degradation of organic dye pollutant in water – The application of zeolite assisted AOPs. <i>Desalination</i> , 2010, 257, 22-29.	8.2	154
5	Azo dye degradation using Fenton type processes assisted by UV irradiation: A kinetic study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 181, 195-202.	3.9	129
6	Prediction of rate constants for radical degradation of aromatic pollutants in water matrix: A QSAR study. <i>Chemosphere</i> , 2009, 75, 1128-1134.	8.2	122
7	Diclofenac removal by simulated solar assisted photocatalysis using TiO ₂ -based zeolite catalyst; mechanisms, pathways and environmental aspects. <i>Chemical Engineering Journal</i> , 2016, 304, 289-302.	12.7	113
8	Fenton type processes for minimization of organic content in coloured wastewaters: Part I: Processes optimization. <i>Dyes and Pigments</i> , 2007, 74, 380-387.	3.7	78
9	Recent Achievements in Development of TiO ₂ -Based Composite Photocatalytic Materials for Solar Driven Water Purification and Water Splitting. <i>Materials</i> , 2020, 13, 1338.	2.9	76
10	UV-based processes for reactive azo dye mineralization. <i>Water Research</i> , 2006, 40, 525-532.	11.3	75
11	Fe-exchanged zeolite as the effective heterogeneous Fenton-type catalyst for the organic pollutant minimization: UV irradiation assistance. <i>Chemosphere</i> , 2006, 65, 65-73.	8.2	72
12	Degradation of chlorinated hydrocarbons by UV/H ₂ O ₂ : The application of experimental design and kinetic modeling approach. <i>Chemical Engineering Journal</i> , 2010, 158, 154-166.	12.7	65
13	Decomposition of phenol by hybrid gas/liquid electrical discharge reactors with zeolite catalysts. <i>Journal of Hazardous Materials</i> , 2005, 125, 190-200.	12.4	63
14	Treatment of simulated industrial wastewater by photo-Fenton process. Part I: The optimization of process parameters using design of experiments (DOE). <i>Chemical Engineering Journal</i> , 2011, 173, 267-279.	12.7	59
15	Advanced Oxidation Processes in Azo Dye Wastewater Treatment. <i>Water Environment Research</i> , 2006, 78, 572-579.	2.7	46
16	Ecotoxicological Assessment of Microplastics in Freshwater Sources – A Review. <i>Water (Switzerland)</i> , 2021, 13, 56.	2.7	44
17	Photooxidation processes for an azo dye in aqueous media: Modeling of degradation kinetic and ecological parameters evaluation. <i>Journal of Hazardous Materials</i> , 2011, 185, 1558-1568.	12.4	43
18	Modeling dye degradation kinetic using dark- and photo-Fenton type processes. <i>Chemical Engineering Journal</i> , 2009, 155, 144-154.	12.7	42

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19	UV photolysis of diclofenac in water; kinetics, degradation pathway and environmental aspects. <i>Environmental Science and Pollution Research</i> , 2016, 23, 14908-14917.	5.3	42
20	Treatment of simulated industrial wastewater by photo-Fenton process: Part II. The development of mechanistic model. <i>Chemical Engineering Journal</i> , 2011, 173, 280-289.	12.7	38
21	Removal of diclofenac from water by zeolite-assisted advanced oxidation processes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 321, 238-247.	3.9	38
22	Degradation of polar and non-polar pharmaceutical pollutants in water by solar assisted photocatalysis using hydrothermal TiO ₂ -SnS ₂ . <i>Chemical Engineering Journal</i> , 2020, 382, 122826.	12.7	37
23	Environmental aspects of photooxidative treatment of phenolic compounds. <i>Journal of Hazardous Materials</i> , 2013, 262, 377-386.	12.4	36
24	Solar-driven photocatalytic treatment of diclofenac using immobilized TiO ₂ -based zeolite composites. <i>Environmental Science and Pollution Research</i> , 2016, 23, 17982-17994.	5.3	34
25	Environmental aspects on the photodegradation of reactive triazine dyes in aqueous media. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 252, 131-144.	3.9	33
26	Modeling of photooxidative degradation of aromatics in water matrix; combination of mechanistic and structural-relationship approach. <i>Chemical Engineering Journal</i> , 2014, 257, 229-241.	12.7	32
27	Biotreatment strategies for the removal of microplastics from freshwater systems. A review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1377-1402.	16.2	31
28	QSAR modeling of acute toxicity on mammals caused by aromatic compounds: the case study using oral LD50 for rats. <i>Journal of Environmental Monitoring</i> , 2010, 12, 1037.	2.1	28
29	Toxicity of aromatic pollutants and photooxidative intermediates in water: A QSAR study. <i>Ecotoxicology and Environmental Safety</i> , 2019, 169, 918-927.	6.0	28
30	The comparison of photooxidation processes for the minimization of organic load of colored wastewater applying the response surface methodology. <i>Journal of Hazardous Materials</i> , 2010, 183, 189-202.	12.4	24
31	Treatment of Chlorophenols by UV-Based Processes: Correlation of Oxidation By-Products, Wastewater Parameters, and Toxicity. <i>Journal of Environmental Engineering, ASCE</i> , 2011, 137, 639-649.	1.4	24
32	Photooxidative Degradation of Aromatic Carboxylic Acids in Water: Influence of Hydroxyl Substituents. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10590-10598.	3.7	24
33	Key structural features promoting radical driven degradation of emerging contaminants in water. <i>Environment International</i> , 2019, 124, 38-48.	10.0	24
34	One-Pot Synthesis of Sulfur-Doped TiO ₂ /Reduced Graphene Oxide Composite (S-TiO ₂ /rGO) with Improved Photocatalytic Activity for the Removal of Diclofenac from Water. <i>Materials</i> , 2020, 13, 1621.	2.9	23
35	Tailored BiVO ₄ for enhanced visible-light photocatalytic performance. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106025.	6.7	22
36	Fenton type processes for minimization of organic content in coloured wastewaters. Part II: Combination with zeolites. <i>Dyes and Pigments</i> , 2007, 74, 388-395.	3.7	21

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37	Photooxidation of benzene-structured compounds: Influence of substituent type on degradation kinetic and sum water parameters. <i>Water Research</i> , 2012, 46, 3074-3084.	11.3	20
38	Structural aspects of the degradation of sulfoaromatics by the UV/H ₂ O ₂ process. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 293, 1-11.	3.9	20
39	Prediction of biodegradability of aromatics in water using QSAR modeling. <i>Ecotoxicology and Environmental Safety</i> , 2017, 139, 139-149.	6.0	20
40	Solar-active photocatalysts based on TiO ₂ and conductive polymer PEDOT for the removal of bisphenol A. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 396, 112546.	3.9	19
41	Treatment of chlorophenols in water matrix by UV/ferri-oxalate system: Part II. Degradation mechanisms and ecological parameters evaluation. <i>Desalination</i> , 2011, 280, 208-216.	8.2	18
42	UV-assisted persulfate oxidation: the influence of cation type in the persulfate salt on the degradation kinetics of an azo dye pollutant. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2013, 108, 17-39.	1.7	18
43	Comparative study on photooxidative treatment of diclofenac: Response surface and mechanistic modeling. <i>Journal of Water Process Engineering</i> , 2016, 10, 78-88.	5.6	18
44	Reuse of TiO ₂ -based catalyst for solar driven water treatment; thermal and chemical reactivation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 333, 117-129.	3.9	18
45	Treatment of chlorophenols in water matrix by UV/ferrioxalate system: Part I. Key process parameter evaluation by response surface methodology. <i>Desalination</i> , 2011, 279, 258-268.	8.2	17
46	Elucidating the Photocatalytic Behavior of TiO ₂ -SnS ₂ Composites Based on Their Energy Band Structure. <i>Materials</i> , 2018, 11, 1041.	2.9	17
47	Solar driven degradation of 17 β -estradiol using composite photocatalytic materials and artificial irradiation source: Influence of process and water matrix parameters. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 361, 48-61.	3.9	17
48	Performance of UV/acetylacetone process for saline dye wastewater treatment: Kinetics and mechanism. <i>Journal of Hazardous Materials</i> , 2021, 406, 124774.	12.4	17
49	Solar Light Activation of Persulfate by TiO ₂ /Fe ₂ O ₃ Layered Composite Films for Degradation of Amoxicillin: Degradation Mechanism, Matrix Effects, and Toxicity Assessments. <i>Advanced Sustainable Systems</i> , 2021, 5, 2100119.	5.3	17
50	TiO ₂ -SnS ₂ nanocomposites: solar-active photocatalytic materials for water treatment. <i>Environmental Science and Pollution Research</i> , 2017, 24, 19965-19979.	5.3	16
51	Environmental aspects of UV-C-based processes for the treatment of oxytetracycline in water. <i>Environmental Pollution</i> , 2021, 277, 116797.	7.5	16
52	Comparative analysis of UV-C/H ₂ O ₂ and UV-A/TiO ₂ processes for the degradation of diclofenac in water. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2016, 118, 451-462.	1.7	15
53	Influence of process parameters on the effectiveness of photooxidative treatment of pharmaceuticals. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018, 53, 338-351.	1.7	15
54	Role of quantum dots nanoparticles in the chemical treatment of colored wastewater: Catalysts or additional pollutants. <i>Journal of Environmental Sciences</i> , 2011, 23, 1479-1485.	6.1	13

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55	Modeling of photodegradation kinetics of aromatic pollutants in water matrix. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 271, 65-76.	3.9	13
56	Structural Influence on Photooxidative Degradation of Halogenated Phenols. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	13
57	Enhanced photo-degradation of N-methyl-2-pyrrolidone (NMP): Influence of matrix components, kinetic study and artificial neural network modelling. <i>Journal of Hazardous Materials</i> , 2022, 434, 128807.	12.4	13
58	Influence of substituent type and position on photooxidation of phenolic compounds: Response surface methodology approach. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 242, 1-12.	3.9	12
59	Modeling Photo-oxidative Degradation of Aromatics in Water. Optimization Study Using Response Surface and Structural Relationship Approaches. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 5427-5441.	3.7	12
60	Prediction of key structural features responsible for aromaticity of single-benzene ring pollutants and their photooxidative intermediates. <i>Chemical Engineering Journal</i> , 2015, 276, 261-273.	12.7	12
61	Ecotoxicological Determination of Microplastic Toxicity on Algae <i>Chlorella</i> sp.: Response Surface Modeling Approach. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	2.4	12
62	Altered toxicity of organic pollutants in water originated from simultaneous exposure to UV photolysis and CdSe/ZnS quantum dots. <i>Chemosphere</i> , 2012, 89, 900-906.	8.2	11
63	Influence of Photo-Deposited Pt and Pd onto Chromium Doped TiO ₂ Nanotubes in Photo-Electrochemical Water Splitting for Hydrogen Generation. <i>Catalysts</i> , 2021, 11, 212.	3.5	9
64	Reactivation and reuse of TiO ₂ -SnS ₂ composite catalyst for solar-driven water treatment. <i>Environmental Science and Pollution Research</i> , 2018, 25, 2538-2551.	5.3	8
65	Structural features of contaminants of emerging concern behind empirical parameters of mechanistic models describing their photooxidative degradation. <i>Journal of Water Process Engineering</i> , 2020, 33, 101053.	5.6	7
66	ADVANCED OXIDATION OF AN AZO DYE AND ITS SYNTHESIS INTERMEDIATES IN AQUEOUS SOLUTION: EFFECT OF FENTON TREATMENT ON MINERALIZATION, BIODEGRADABILITY AND TOXICITY. <i>Environmental Engineering and Management Journal</i> , 2014, 13, 2561-2571.	0.6	7
67	Application of Sensitivity and Flux Analyses for the Reduction of Model Predicting the Photooxidative Degradation of an Azo Dye in Aqueous Media. <i>Environmental Modeling and Assessment</i> , 2012, 17, 653-671.	2.2	5
68	Photooxidative Degradation of Pesticides in Water; Response Surface Modeling Approach. <i>Journal of Advanced Oxidation Technologies</i> , 2017, 20, .	0.5	4
69	In-situ high temperature XRD study on thermally induced phase changes of BiVO ₄ : The formation of an iso-type heterojunction. <i>Materials Letters</i> , 2021, 305, 130816.	2.6	4
70	Hybrid Gas/Liquid Electrical Discharge Reactors with Zeolites for Colored Wastewater Degradation. <i>Journal of Advanced Oxidation Technologies</i> , 2005, 8, .	0.5	3
71	MINERALIZATION OF SALICYLIC ACID IN WATER BY CATALYTIC OZONATION. <i>Environmental Engineering and Management Journal</i> , 2016, 15, 151-166.	0.6	2
72	Structural features promoting adsorption of contaminants of emerging concern onto TiO ₂ P25: experimental and computational approaches. <i>Environmental Science and Pollution Research</i> , 2022, 29, 87628-87644.	5.3	2

#	ARTICLE	IF	CITATIONS
73	8. Water and wastewater treatment engineering. , 2018, , 241-276.		0
74	Influence of process parameters on the effectiveness of photooxidative treatment of emerging contaminants in water. AIP Conference Proceedings, 2018, , .	0.4	0
75	AOP degradation of emerging contaminants in water: Prediction of second order kinetics by QSPR modeling. AIP Conference Proceedings, 2018, , .	0.4	0
76	Modeling of Photooxidative Degradation of Aromatics in Water Matrix: A Quantitative Structure-Property Relationship Approach. ACS Symposium Series, 2019, , 257-292.	0.5	0