Adelina M Voutchkova-Kostal

List of Publications by Year
in descending order

43 papers	893 citations	430874 18 h-index	477307 29 g-index
56 all docs	56 docs citations	56 times ranked	1129 citing authors

#	Article	IF	Citations
1	Assessment of predictive models for estimating the acute aquatic toxicity of organic chemicals. Green Chemistry, 2016, 18, 4432-4445.	9.0	99
2	Identifying and designing chemicals with minimal acute aquatic toxicity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6289-6294.	7.1	75
3	Towards rational molecular design for reduced chronic aquatic toxicity. Green Chemistry, 2012, 14, 1001.	9.0	52
4	Transfer Hydrogenation from Glycerol: Activity and Recyclability of Iridium and Ruthenium Sulfonate-Functionalized N-Heterocyclic Carbene Catalysts. ACS Sustainable Chemistry and Engineering, 2017, 5, 3963-3972.	6.7	51
5	Comparative behavioral toxicology with two common larval fish models: Exploring relationships among modes of action and locomotor responses. Science of the Total Environment, 2018, 640-641, 1587-1600.	8.0	49
6	Next-Generation Water-Soluble Homogeneous Catalysts for Conversion of Glycerol to Lactic Acid. Organometallics, 2018, 37, 1400-1409.	2.3	46
7	Recyclable hydrotalcite catalysts for alcohol imination via acceptorless dehydrogenation. Green Chemistry, 2015, 17, 2271-2280.	9.0	37
8	Acceptorless Amine Dehydrogenation and Transamination Using Pd-Doped Hydrotalcites. ACS Catalysis, 2019, 9, 1055-1065.	11.2	37
9	Current Status and Future Challenges in Molecular Design for Reduced Hazard. ACS Sustainable Chemistry and Engineering, 2016, 4, 5900-5906.	6.7	35
10	CADRE-SS, an <i>in Silico</i> Tool for Predicting Skin Sensitization Potential Based on Modeling of Molecular Interactions. Chemical Research in Toxicology, 2016, 29, 58-64.	3.3	35
11	The safer chemical design game. Gamification of green chemistry and safer chemical design concepts for high school and undergraduate students. Green Chemistry Letters and Reviews, 2018, 11, 103-110.	4.7	32
12	Transfer hydrogenation of carbon dioxide and bicarbonate from glycerol under aqueous conditions. Chemical Communications, 2018, 54, 6184-6187.	4.1	30
13	Efficient transfer hydrogenation of carbonate salts from glycerol using water-soluble iridium N-heterocyclic carbene catalysts. Green Chemistry, 2020, 22, 6093-6104.	9.0	29
14	Toward the Design of Less Hazardous Chemicals: Exploring Comparative Oxidative Stress in Two Common Animal Models. Chemical Research in Toxicology, 2017, 30, 893-904.	3.3	26
15	Reducing aquatic hazards of industrial chemicals: Probabilistic assessment of sustainable molecular design guidelines. Environmental Toxicology and Chemistry, 2014, 33, 1894-1902.	4.3	21
16	Microwaveâ€Assisted Decarbonylation of Biomassâ€Derived Aldehydes using Pdâ€Doped Hydrotalcites. ChemSusChem, 2020, 13, 312-320.	6.8	21
17	Going All In: A Strategic Investment in <i>In Silico</i> Toxicology. Chemical Research in Toxicology, 2020, 33, 880-888.	3.3	21
18	A Free Energy Approach to the Prediction of Olefin and Epoxide Mutagenicity and Carcinogenicity. Chemical Research in Toxicology, 2012, 25, 2780-2787.	3.3	18

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19	Green Chemistry: A Framework for a Sustainable Future. Organic Process Research and Development, 2021, 25, 1455-1459.	2.7	18
20	The Molecular Design Research Network. Toxicological Sciences, 2018, 161, 241-248.	3.1	17
21	Continuous synthesis of doped layered double hydroxides in a meso-scale flow reactor. Chemical Engineering Journal, 2019, 360, 190-199.	12.7	17
22	Decarbonylative Olefination of Aldehydes to Alkenes. Journal of the American Chemical Society, 2020, 142, 696-699.	13.7	17
23	Transfer hydrogenation of levulinic acid from glycerol and ethanol using water-soluble iridium N-heterocyclic carbene complexes. Journal of Organometallic Chemistry, 2020, 919, 121310.	1.8	13
24	Green Chemistry: A Framework for a Sustainable Future. Environmental Science & Technology, 2021, 55, 8459-8463.	10.0	12
25	Immobilization of imidazolium ionic liquids on hydrotalcites using silane linkers: retardation of memory effect. RSC Advances, 2015, 5, 13016-13020.	3.6	10
26	Kinetics of Glutathione Depletion and Antioxidant Gene Expression as Indicators of Chemical Modes of Action Assessed <i>in Vitro</i> in Mouse Hepatocytes with Enhanced Glutathione Synthesis. Chemical Research in Toxicology, 2019, 32, 421-436.	3.3	8
27	CRISPR-Generated Nrf2a Loss- and Gain-of-Function Mutants Facilitate Mechanistic Analysis of Chemical Oxidative Stress-Mediated Toxicity in Zebrafish. Chemical Research in Toxicology, 2020, 33, 426-435.	3.3	8
28	Toward Less Hazardous Industrial Compounds: Coupling Quantum Mechanical Computations, Biomarker Responses, and Behavioral Profiles To Identify Bioactivity of SN2 Electrophiles in Alternative Vertebrate Models. Chemical Research in Toxicology, 2020, 33, 367-380.	3.3	8
29	Green Chemistry: A Framework for a Sustainable Future. Environmental Science and Technology Letters, 2021, 8, 487-491.	8.7	7
30	Green Chemistry: A Framework for a Sustainable Future. ACS Omega, 2021, 6, 16254-16258.	3.5	7
31	Global Model for Octanolâ€Water Partition Coefficients from Proton Nuclear Magnetic Resonance Spectra. Molecular Informatics, 2014, 33, 286-292.	2.5	6
32	Green Chemistry: A Framework for a Sustainable Future. Organic Letters, 2021, 23, 4935-4939.	4.6	6
33	Green Chemistry: A Framework for a Sustainable Future. Organometallics, 2021, 40, 1801-1805.	2.3	4
34	Green Chemistry: A Framework for a Sustainable Future. Journal of Organic Chemistry, 2021, 86, 8551-8555.	3.2	4
35	Electronic Support Effects of Tunable Mixed Metal Oxides on Immobilized Palladium N-Heterocyclic Carbene Complexes. European Journal of Inorganic Chemistry, 2018, 2018, 2471-2479.	2.0	3
36	Green Chemistry: A Framework for a Sustainable Future. Industrial & Engineering Chemistry Research, 2021, 60, 8964-8968.	3.7	3

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37	Women in Green Chemistry and Engineering: Agents of Change Toward the Achievement of a Sustainable Future. ACS Sustainable Chemistry and Engineering, 2022, 10, 2859-2862.	6.7	3
38	<i>ACS Sustainable Chemistry & Engineering</i> Virtual Special Issue on Hydrogen Transfer Strategies for Biomass Valorization. ACS Sustainable Chemistry and Engineering, 2019, 7, 16935-16936.	6.7	2
39	Green Chemistry: A Framework for a Sustainable Future. ACS Sustainable Chemistry and Engineering, 2021, 9, 8336-8340.	6.7	2
40	Multifunctional Catalysts for Direct Conversion of Alcohols to Long-Chain Hydrocarbons via Deoxygenative Olefination. ACS Sustainable Chemistry and Engineering, 2021, 9, 14657-14662.	6.7	2
41	Predicting skin permeation rate from nuclear magnetic resonance spectra. Green Chemistry, 2016, 18, 4468-4474.	9.0	1
42	Electronic Effects of Support Doping on Hydrotalcite-Supported Iridium N-Heterocyclic Carbene Complexes. ACS Omega, 2022, 7, 24705-24713.	3.5	1
43	Electronic Support Effects of Tunable Mixed Metal Oxides on Immobilized Palladium Nâ€Heterocyclic Carbene Complexes. European Journal of Inorganic Chemistry, 2020, 2020, 2766-2766.	2.0	0