Adelina M Voutchkova-Kostal

List of Publications by Year
in descending order

43 papers	893 citations	430442 18 h-index	476904 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.	4.6	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.	3.3	75
3	Towards rational molecular design for reduced chronic aquatic toxicity. Green Chemistry, 2012, 14, 1001.	4.6	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.	3.2	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.	3.9	49
6	Next-Generation Water-Soluble Homogeneous Catalysts for Conversion of Glycerol to Lactic Acid. Organometallics, 2018, 37, 1400-1409.	1.1	46
7	Recyclable hydrotalcite catalysts for alcohol imination via acceptorless dehydrogenation. Green Chemistry, 2015, 17, 2271-2280.	4.6	37
8	Acceptorless Amine Dehydrogenation and Transamination Using Pd-Doped Hydrotalcites. ACS Catalysis, 2019, 9, 1055-1065.	5.5	37
9	Current Status and Future Challenges in Molecular Design for Reduced Hazard. ACS Sustainable Chemistry and Engineering, 2016, 4, 5900-5906.	3.2	35
10	CADRE-SS, an in Silico Tool for Predicting Skin Sensitization Potential Based on Modeling of Molecular Interactions. Chemical Research in Toxicology, 2016, 29, 58-64.	1.7	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.	2.1	32
12	Transfer hydrogenation of carbon dioxide and bicarbonate from glycerol under aqueous conditions. Chemical Communications, 2018, 54, 6184-6187.	2.2	30
13	Efficient transfer hydrogenation of carbonate salts from glycerol using water-soluble iridium N-heterocyclic carbene catalysts. Green Chemistry, 2020, 22, 6093-6104.	4.6	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.	1.7	26
15	Reducing aquatic hazards of industrial chemicals: Probabilistic assessment of sustainable molecular design guidelines. Environmental Toxicology and Chemistry, 2014, 33, 1894-1902.	2.2	21
16	Microwaveâ€Assisted Decarbonylation of Biomassâ€Derived Aldehydes using Pdâ€Doped Hydrotalcites. ChemSusChem, 2020, 13, 312-320.	3.6	21
17	Going All In: A Strategic Investment in In Silico Toxicology. Chemical Research in Toxicology, 2020, 33, 880-888.	1.7	21
18	A Free Energy Approach to the Prediction of Olefin and Epoxide Mutagenicity and Carcinogenicity. Chemical Research in Toxicology, 2012, 25, 2780-2787.	1.7	18

#	Article	IF	Citations
19	Green Chemistry: A Framework for a Sustainable Future. Organic Process Research and Development, 2021, 25, 1455-1459.	1.3	18
20	The Molecular Design Research Network. Toxicological Sciences, 2018, 161, 241-248.	1.4	17
21	Continuous synthesis of doped layered double hydroxides in a meso-scale flow reactor. Chemical Engineering Journal, 2019, 360, 190-199.	6.6	17
22	Decarbonylative Olefination of Aldehydes to Alkenes. Journal of the American Chemical Society, 2020, 142, 696-699.	6.6	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.	0.8	13
24	Green Chemistry: A Framework for a Sustainable Future. Environmental Science & Technology, 2021, 55, 8459-8463.	4.6	12
25	Immobilization of imidazolium ionic liquids on hydrotalcites using silane linkers: retardation of memory effect. RSC Advances, 2015, 5, 13016-13020.	1.7	10
26	Kinetics of Glutathione Depletion and Antioxidant Gene Expression as Indicators of Chemical Modes of Action Assessed in Vitro in Mouse Hepatocytes with Enhanced Glutathione Synthesis. Chemical Research in Toxicology, 2019, 32, 421-436.	1.7	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.	1.7	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.	1.7	8
29	Green Chemistry: A Framework for a Sustainable Future. Environmental Science and Technology Letters, 2021, 8, 487-491.	3.9	7
30	Green Chemistry: A Framework for a Sustainable Future. ACS Omega, 2021, 6, 16254-16258.	1.6	7
31	Global Model for Octanolâ€Water Partition Coefficients from Proton Nuclear Magnetic Resonance Spectra. Molecular Informatics, 2014, 33, 286-292.	1.4	6
32	Green Chemistry: A Framework for a Sustainable Future. Organic Letters, 2021, 23, 4935-4939.	2.4	6
33	Green Chemistry: A Framework for a Sustainable Future. Organometallics, 2021, 40, 1801-1805.	1.1	4
34	Green Chemistry: A Framework for a Sustainable Future. Journal of Organic Chemistry, 2021, 86, 8551-8555.	1.7	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.	1.0	3
36	Green Chemistry: A Framework for a Sustainable Future. Industrial & Engineering Chemistry Research, 2021, 60, 8964-8968.	1.8	3

#	Article	IF	Citations
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.	3.2	3
38	ACS Sustainable Chemistry & Engineering Virtual Special Issue on Hydrogen Transfer Strategies for Biomass Valorization. ACS Sustainable Chemistry and Engineering, 2019, 7, 16935-16936.	3.2	2
39	Green Chemistry: A Framework for a Sustainable Future. ACS Sustainable Chemistry and Engineering, 2021, 9, 8336-8340.	3.2	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.	3.2	2
41	Predicting skin permeation rate from nuclear magnetic resonance spectra. Green Chemistry, 2016, 18, 4468-4474.	4.6	1
42	Electronic Effects of Support Doping on Hydrotalcite-Supported Iridium N-Heterocyclic Carbene Complexes. ACS Omega, 2022, 7, 24705-24713.	1.6	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.	1.0	0