Stanislav R Stoyanov

List of Publications by Year
in descending order

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43	1,702	304743 22	276875 41
papers	citations	h-index	g-index

43	43	43	2469
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Diazonium-Derived Aryl Films on Gold Nanoparticles: Evidence for a Carbonâ€“Gold Covalent Bond. ACS Nano, 2011, 5, 4219-4227.	14.6	189
2	Density Functional Theory Investigation of the Contributions of Ï€â€“Ï€ Stacking and Hydrogen-Bonding Interactions to the Aggregation of Model Asphaltene Compounds. Energy & Fuels, 2012, 26, 2727-2735.	5.1	113
3	Plant Biomass Recalcitrance: Effect of Hemicellulose Composition on Nanoscale Forces that Control Cell Wall Strength. Journal of the American Chemical Society, 2013, 135, 19048-19051.	13.7	108
4	Density Functional Theory Calculations of Selected Ru(II) Two Ring Diimine Complex Dications. Inorganic Chemistry, 2002, 41, 2941-2945.	4.0	95
5	Transition metal and nitrogen doped carbon nanostructures. Coordination Chemistry Reviews, 2009, 253, 2852-2871.	18.8	88
6	Advanced oxidation processes in microreactors for water and wastewater treatment: Development, challenges, and opportunities. Water Research, 2022, 211, 118047.	11.3	87
7	Electronic Characteristics and Charge Transport Mechanisms for Large Area Aromatic Molecular Junctions. Journal of Physical Chemistry C, 2010, 114, 15806-15815.	3.1	83
8	Application of solidifiers for oil spill containment: A review. Chemosphere, 2018, 194, 837-846.	8.2	83
9	Photophysical, Spectroscopic, and Computational Studies of a Series of Re(I) Tricarbonyl Complexes Containing 2,6-Dimethylphenylisocyanide and 5- and 6-Derivatized Phenanthroline Ligands. Inorganic Chemistry, 2005, 44, 2297-2309.	4.0	79
10	Computational and Spectroscopic Studies of Re(I) Bipyridyl Complexes Containing 2,6-Dimethylphenylisocyanide (CNx) Ligand. Journal of Chemical Theory and Computation, 2005, 1, 95-106.	5.3	63
11	Cellulose Aggregation under Hydrothermal Pretreatment Conditions. Biomacromolecules, 2016, 17, 2582-2590.	5.4	62
12	Supramolecular Interactions in Secondary Plant Cell Walls: Effect of Lignin Chemical Composition Revealed with the Molecular Theory of Solvation. Journal of Physical Chemistry Letters, 2015, 6, 206-211.	4.6	60
13	Theoretical Modeling of Zeolite Nanoparticle Surface Acidity for Heavy Oil Upgrading. Journal of Physical Chemistry C, 2008, 112, 6794-6810.	3.1	55
14	Computational and Experimental Study of the Structure, Binding Preferences, and Spectroscopy of Nickel(II) and Vanadyl Porphyrins in Petroleum. Journal of Physical Chemistry B, 2010, 114, 2180-2188.	2.6	55
15	Time-Dependent Density Functional Theory Study of the Spectroscopic Properties Related to Aggregation in the Platinum(II) Biphenyl Dicarbonyl Complex. Inorganic Chemistry, 2003, 42, 7852-7860.	4.0	49
16	A spectroscopic and computational study on the effects of methyl and phenyl substituted phenanthroline ligands on the electronic structure of Re(i) tricarbonyl complexes containing 2,6-dimethylphenylisocyanide. Dalton Transactions, 2005, , 1042.	3.3	49
17	Computational Study of the Effect of Dispersion Interactions on the Thermochemistry of Aggregation of Fused Polycyclic Aromatic Hydrocarbons as Model Asphaltene Compounds in Solution. Journal of Physical Chemistry A, 2014, 118, 896-908.	2.5	47
18	Recent Advances in Nonaqueous Extraction of Bitumen from Mineable Oil Sands: A Review. Organic Process Research and Development, 2017, 21, 492-510.	2.7	46

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19	Adsorption of Indole on Kaolinite in Nonaqueous Media: Organoclay Preparation and Characterization, and 3D-RISM-KH Molecular Theory of Solvation Investigation. Journal of Physical Chemistry C, 2013, 117, 18556-18566.	3.1	34
20	Spectroscopic Properties of [Pt2(Î¼-P2O5H2)4]:4- A Time-Dependent Density Functional Theory and Conductor-like Polarizable Continuum Model Investigation. Journal of Physical Chemistry B, 2004, 108, 12175-12180.	2.6	26
21	Multiscale modelling of asphaltene disaggregation. Molecular Simulation, 2008, 34, 953-960.	2.0	24
22	Development of Fukui Function Based Descriptors for a Machine Learning Study of CO2 Reduction. Journal of Physical Chemistry C, 2020, 124, 10079-10084.	3.1	24
23	Moleculeâ€“Surface Recognition between Heterocyclic Aromatic Compounds and Kaolinite in Toluene Investigated by Molecular Theory of Solvation and Thermodynamic and Kinetic Experiments. Journal of Physical Chemistry C, 2014, 118, 23821-23834.	3.1	23
24	HOMOâ€“LUMO energy gap control in platinum(<scp>ii</scp>) biphenyl complexes containing 2,2â€²-bipyridine ligands. Dalton Transactions, 2015, 44, 17075-17090.	3.3	19
25	UV Stimulated Manganese Dioxide for the Persulfate Catalytic Degradation of Bisphenol A. Catalysts, 2021, 11, 502.	3.5	18
26	Distributions of diluted bitumen and conventional crude oil in a range of water types. Chemosphere, 2018, 211, 1212-1218.	8.2	17
27	Modelling of bitumen fragment adsorption on Cu+ and Ag+ exchanged zeolite nanoparticles. Molecular Simulation, 2008, 34, 943-951.	2.0	15
28	Adsorption of Bitumen Model Compounds on Kaolinite in Liquid and Supercritical Carbon Dioxide Solvents: A Study by Periodic Density Functional Theory and Molecular Theory of Solvation. Energy & Fuels, 2015, 29, 2853-2863.	5.1	12
29	Development and application of an amylopectin-graft-poly(methyl acrylate) solidifier for rapid and efficient containment and recovery of heavy oil spills in aqueous environments. Chemosphere, 2019, 236, 124352.	8.2	11
30	COSMO-RS-Based Descriptors for the Machine Learning-Enabled Screening of Nucleotide Analogue Drugs against SARS-CoV-2. Journal of Physical Chemistry Letters, 2020, 11, 9408-9414.	4.6	10
31	Bitumen froth treatment in the transition region between paraffinic and naphthenic process conditions. Fuel, 2021, 286, 119385.	6.4	10
32	A 3D-RISM-KH Molecular Theory of Solvation Study of the Effective Stacking Interactions of Kaolinite Nanoparticles in Aqueous Electrolyte Solution Containing Additives. Journal of Physical Chemistry C, 2016, 120, 21344-21357.	3.1	8
33	Synthesis, characterization, and thermal and computational investigations of the l-histidine bis(fluoride) crystal. Journal of Molecular Modeling, 2022, 28, .	1.8	8
34	Density Functional Theory Study of the Effects of Substituents on the Carbon-13 Nuclear Magnetic Resonance Chemical Shifts of Asphaltene Model Compounds. Energy & Fuels, 2015, 29, 2843-2852.	5.1	6
35	Asphaltene Precipitation Onsets in Relation to the Critical Dilution of Athabasca Bitumen in Paraffinic Solvents. Energy & Fuels, 2022, 36, 1832-1841.	5.1	5
36	A computational study on the steric effects of naphthenic moieties on aggregation interactions of nonconventional petroleum constituents. Journal of Physical Organic Chemistry, 2015, 28, 234-241.	1.9	4

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37	Computational and Experimental Investigations of the Role of Water and Alcohols in the Desorption of Heterocyclic Aromatic Compounds from Kaolinite in Toluene. Journal of Physical Chemistry C, 2018, 122, 10377-10391.	3.1	4
38	Coalescence inhibition and agglomeration initiation near the critical dilution of asphaltene precipitation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 629, 127400.	4.7	4
39	Hydration-dependent band gap tunability of self-assembled phenylalanyl tryptophan nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114910.	2.7	3
40	Synthesis and Computational and Experimental Investigations of a para-Nicotinic Acid-Bridged Dirhenium(I) Dimer Complex. ACS Omega, 2020, 5, 12944-12954.	3.5	3
41	Design of Molecular Building Blocks for the Development of Nickel(II)-Chelating Agents. ChemistrySelect, 2017, 2, 4617-4625.	1.5	2
42	Computational Investigation of the Metal and Ligand Substitution Effects on the Structure and Electronic States of the Phosphoranimide Tetramer Complexes of Cu(I), Ni(I), Co(I), and Fe(I). Inorganic Chemistry, 2022, 61, 1471-1485.	4.0	1
43	Computational and infrared spectroscopic investigations of N-substituted carbazoles. Physical Chemistry Chemical Physics, 2021, 23, 8426-8438.	2.8	0