

Stanislav R Stoyanov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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). <i>Inorganic Chemistry</i> , 2022, 61, 1471-1485.	4.0	1
2	Advanced oxidation processes in microreactors for water and wastewater treatment: Development, challenges, and opportunities. <i>Water Research</i> , 2022, 211, 118047.	11.3	87
3	Asphaltene Precipitation Onsets in Relation to the Critical Dilution of Athabasca Bitumen in Paraffinic Solvents. <i>Energy & Fuels</i> , 2022, 36, 1832-1841.	5.1	5
4	Synthesis, characterization, and thermal and computational investigations of the L-histidine bis(fluoride) crystal. <i>Journal of Molecular Modeling</i> , 2022, 28, .	1.8	8
5	Bitumen froth treatment in the transition region between paraffinic and naphthenic process conditions. <i>Fuel</i> , 2021, 286, 119385.	6.4	10
6	UV Stimulated Manganese Dioxide for the Persulfate Catalytic Degradation of Bisphenol A. <i>Catalysts</i> , 2021, 11, 502.	3.5	18
7	Hydration-dependent band gap tunability of self-assembled phenylalanyl tryptophan nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 134, 114910.	2.7	3
8	Coalescence inhibition and agglomeration initiation near the critical dilution of asphaltene precipitation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 629, 127400.	4.7	4
9	Computational and infrared spectroscopic investigations of N-substituted carbazoles. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8426-8438.	2.8	0
10	COSMO-RS-Based Descriptors for the Machine Learning-Enabled Screening of Nucleotide Analogue Drugs against SARS-CoV-2. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9408-9414.	4.6	10
11	Development of Fukui Function Based Descriptors for a Machine Learning Study of CO ₂ Reduction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10079-10084.	3.1	24
12	Synthesis and Computational and Experimental Investigations of a <i>para</i> -Nicotinic Acid-Bridged Dirhenium(II) Dimer Complex. <i>ACS Omega</i> , 2020, 5, 12944-12954.	3.5	3
13	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. <i>Chemosphere</i> , 2019, 236, 124352.	8.2	11
14	Computational and Experimental Investigations of the Role of Water and Alcohols in the Desorption of Heterocyclic Aromatic Compounds from Kaolinite in Toluene. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10377-10391.	3.1	4
15	Application of solidifiers for oil spill containment: A review. <i>Chemosphere</i> , 2018, 194, 837-846.	8.2	83
16	Distributions of diluted bitumen and conventional crude oil in a range of water types. <i>Chemosphere</i> , 2018, 211, 1212-1218.	8.2	17
17	Design of Molecular Building Blocks for the Development of Nickel(II)-Chelating Agents. <i>ChemistrySelect</i> , 2017, 2, 4617-4625.	1.5	2
18	Recent Advances in Nonaqueous Extraction of Bitumen from Mineable Oil Sands: A Review. <i>Organic Process Research and Development</i> , 2017, 21, 492-510.	2.7	46

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19	A 3D-RISM-KH Molecular Theory of Solvation Study of the Effective Stacking Interactions of Kaolinite Nanoparticles in Aqueous Electrolyte Solution Containing Additives. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21344-21357.	3.1	8
20	Cellulose Aggregation under Hydrothermal Pretreatment Conditions. <i>Biomacromolecules</i> , 2016, 17, 2582-2590.	5.4	62
21	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. <i>Energy & Fuels</i> , 2015, 29, 2853-2863.	5.1	12
22	Supramolecular Interactions in Secondary Plant Cell Walls: Effect of Lignin Chemical Composition Revealed with the Molecular Theory of Solvation. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 206-211.	4.6	60
23	A computational study on the steric effects of naphthenic moieties on aggregation interactions of nonconventional petroleum constituents. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 234-241.	1.9	4
24	HOMO-LUMO energy gap control in platinum(<i>II</i>) biphenyl complexes containing 2,2'-bipyridine ligands. <i>Dalton Transactions</i> , 2015, 44, 17075-17090.	3.3	19
25	Density Functional Theory Study of the Effects of Substituents on the Carbon-13 Nuclear Magnetic Resonance Chemical Shifts of Asphaltene Model Compounds. <i>Energy & Fuels</i> , 2015, 29, 2843-2852.	5.1	6
26	Computational Study of the Effect of Dispersion Interactions on the Thermochemistry of Aggregation of Fused Polycyclic Aromatic Hydrocarbons as Model Asphaltene Compounds in Solution. <i>Journal of Physical Chemistry A</i> , 2014, 118, 896-908.	2.5	47
27	Molecule-Surface Recognition between Heterocyclic Aromatic Compounds and Kaolinite in Toluene Investigated by Molecular Theory of Solvation and Thermodynamic and Kinetic Experiments. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23821-23834.	3.1	23
28	Adsorption of Indole on Kaolinite in Nonaqueous Media: Organoclay Preparation and Characterization, and 3D-RISM-KH Molecular Theory of Solvation Investigation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18556-18566.	3.1	34
29	Plant Biomass Recalcitrance: Effect of Hemicellulose Composition on Nanoscale Forces that Control Cell Wall Strength. <i>Journal of the American Chemical Society</i> , 2013, 135, 19048-19051.	13.7	108
30	Density Functional Theory Investigation of the Contributions of π - π Stacking and Hydrogen-Bonding Interactions to the Aggregation of Model Asphaltene Compounds. <i>Energy & Fuels</i> , 2012, 26, 2727-2735.	5.1	113
31	Diazonium-Derived Aryl Films on Gold Nanoparticles: Evidence for a Carbon-Gold Covalent Bond. <i>ACS Nano</i> , 2011, 5, 4219-4227.	14.6	189
32	Computational and Experimental Study of the Structure, Binding Preferences, and Spectroscopy of Nickel(II) and Vanadyl Porphyrins in Petroleum. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2180-2188.	2.6	55
33	Electronic Characteristics and Charge Transport Mechanisms for Large Area Aromatic Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15806-15815.	3.1	83
34	Transition metal and nitrogen doped carbon nanostructures. <i>Coordination Chemistry Reviews</i> , 2009, 253, 2852-2871.	18.8	88
35	Theoretical Modeling of Zeolite Nanoparticle Surface Acidity for Heavy Oil Upgrading. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6794-6810.	3.1	55
36	Multiscale modelling of asphaltene disaggregation. <i>Molecular Simulation</i> , 2008, 34, 953-960.	2.0	24

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37	Modelling of bitumen fragment adsorption on Cu ⁺ and Ag ⁺ exchanged zeolite nanoparticles. <i>Molecular Simulation</i> , 2008, 34, 943-951.	2.0	15
38	Photophysical, Spectroscopic, and Computational Studies of a Series of Re(I) Tricarbonyl Complexes Containing 2,6-Dimethylphenylisocyanide and 5- and 6-Derivatized Phenanthroline Ligands. <i>Inorganic Chemistry</i> , 2005, 44, 2297-2309.	4.0	79
39	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. <i>Dalton Transactions</i> , 2005, , 1042.	3.3	49
40	Computational and Spectroscopic Studies of Re(I) Bipyridyl Complexes Containing 2,6-Dimethylphenylisocyanide (CN _x) Ligand. <i>Journal of Chemical Theory and Computation</i> , 2005, 1, 95-106.	5.3	63
41	Spectroscopic Properties of [Pt ₂ ($\frac{1}{4}$ -P2O5H ₂) ₄]:4- A Time-Dependent Density Functional Theory and Conductor-like Polarizable Continuum Model Investigation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12175-12180.	2.6	26
42	Time-Dependent Density Functional Theory Study of the Spectroscopic Properties Related to Aggregation in the Platinum(II) Biphenyl Dicarboxyl Complex. <i>Inorganic Chemistry</i> , 2003, 42, 7852-7860.	4.0	49
43	Density Functional Theory Calculations of Selected Ru(II) Two Ring Diimine Complex Dications. <i>Inorganic Chemistry</i> , 2002, 41, 2941-2945.	4.0	95