

Jean-François Dufrêche

List of Publications by Year in descending order

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69
papers

1,470
citations

236925

25
h-index

377865

34
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69
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69
docs citations

69
times ranked

1399
citing authors

#	ARTICLE	IF	CITATIONS
19	Modeling and Speciation Study of Uranium(VI) and Technetium(VII) Coextraction with DEHiBA. <i>Inorganic Chemistry</i> , 2016, 55, 6511-6519.	4.0	29
20	Colloidal Model for the Prediction of the Extraction of Rare Earths Assisted by the Acidic Extractant. <i>Langmuir</i> , 2019, 35, 3215-3230.	3.5	29
21	Primitive models of ions in solution from molecular descriptions: A perturbation approach. <i>Journal of Chemical Physics</i> , 2011, 135, 234509.	3.0	28
22	Scrutinizing Electro-Osmosis and Surface Conductivity with Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6756-6769.	3.1	28
23	Models of electrolyte solutions from molecular descriptions: The example of NaCl solutions. <i>Physical Review E</i> , 2009, 80, 065103.	2.1	27
24	How Do Anions Affect Self-Assembly and Solubility of Cetylpyridinium Surfactants in Water. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1345-1356.	2.6	27
25	Molecular Forces in Liquid-Liquid Extraction. <i>Langmuir</i> , 2021, 37, 10637-10656.	3.5	27
26	Thermodynamics of Associated Electrolytes in Water: Molecular Dynamics Simulations of Sulfate Solutions. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11184-11195.	2.6	26
27	Reverse Aggregates as Adaptive Self-Assembled Systems for Selective Liquid-Liquid Cation Extraction. <i>Israel Journal of Chemistry</i> , 2013, 53, 108-112.	2.3	25
28	Stability of reverse micelles in rare-earth separation: a chemical model based on a molecular approach. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7094-7100.	2.8	24
29	Kinetics of Triton-X100 Transfer Across the Water/Dodecane Interface: Analysis of the Interfacial Tension Variation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13152-13160.	3.1	23
30	A predictive model of reverse micelles solubilizing water for solvent extraction. <i>Journal of Colloid and Interface Science</i> , 2016, 479, 106-114.	9.4	23
31	The role of curvature effects in liquid-liquid extraction: assessing organic phase mesoscopic properties from MD simulations. <i>Soft Matter</i> , 2017, 13, 5518-5526.	2.7	22
32	Multicomponent Model for the Prediction of Nuclear Waste/Rare-Earth Extraction Processes. <i>Langmuir</i> , 2018, 34, 10434-10447.	3.5	22
33	Predicting for thermodynamic instabilities in water/oil/surfactant microemulsions: A mesoscopic modelling approach. <i>Journal of Chemical Physics</i> , 2014, 140, 164711.	3.0	20
34	Liquid-Liquid Extraction of Acids by a Malonamide: II-Anion Specific Effects in the Aggregate-Enhanced Extraction Isotherms. <i>Solvent Extraction and Ion Exchange</i> , 2014, 32, 620-636.	2.0	18
35	Combined supramolecular and mesoscale modelling of liquid-liquid extraction of rare earth salts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 555, 713-727.	4.7	18
36	New coarse-graining procedure for the dynamics of charged spherical nanoparticles in solution. <i>Journal of Chemical Physics</i> , 2007, 126, 114108.	3.0	17

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37	Surfactant transfer across a water/oil interface: A diffusion/kinetics model for the interfacial tension evolution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 1103-1110.	4.7	16
38	Role of non-ideality for the ion transport in porous media: Derivation of the macroscopic equations using upscaling. <i>Physica D: Nonlinear Phenomena</i> , 2014, 282, 39-60.	2.8	15
39	Charge Properties of TiO ₂ Nanotubes in NaNO ₃ Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13130-13142.	8.0	15
40	Atomistic Description of Binary Lanthanoid Salt Solutions: A Coarse-Graining Approach. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4329-4340.	2.6	14
41	Modeling the transport of water and ionic tracers in a micrometric clay sample. <i>Applied Clay Science</i> , 2016, 123, 18-28.	5.2	14
42	Asymptotic analysis of the Poisson-Boltzmann equation describing electrokinetics in porous media. <i>Nonlinearity</i> , 2013, 26, 881-910.	1.4	12
43	Investigation of the Structure of Concentrated NaOH Aqueous Solutions by Combining Molecular Dynamics and Wide-Angle X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5121-5130.	2.6	11
44	Non-additivity of ionic radii in electrolyte solutions: Hofmeister effect on mixtures modeled by an Associated MSA model. <i>Journal of Molecular Liquids</i> , 2018, 270, 30-39.	4.9	10
45	Recycling of Uranyl from Contaminated Water. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10846-10851.	2.6	9
46	Molecular simulation of binary phase diagrams from the osmotic equilibrium method: vapour pressure and activity in water-ethanol mixtures. <i>Molecular Physics</i> , 2018, 116, 2009-2021.	1.7	9
47	Experimental and Theoretical Study of Morphological and Charging Properties of Truncated Octahedron and Cubic Ceria Nanoparticles: Implications for Biomedical Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 1434-1444.	5.0	9
48	Phase separation of binary mixtures induced by soft centrifugal fields. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8261-8272.	2.8	9
49	Bridging molecular and continuous descriptions: the case of dynamics in clays. <i>Anais Da Academia Brasileira De Ciencias</i> , 2010, 82, 61-68.	0.8	8
50	A thermodynamic model of non-ionic surfactants' micellization in the presence of polyoxometalates. <i>Journal of Molecular Liquids</i> , 2019, 293, 111280.	4.9	8
51	Electrostatic interactions in water: a nonlocal electrostatic approach. <i>Molecular Physics</i> , 2021, 119, e1825849.	1.7	8
52	Thermodynamics of Malonamide Aggregation Deduced from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2021, 125, 3409-3418.	2.6	8
53	Analysis of the second harmonic generation signal from a liquid/air and liquid/liquid interface. <i>Journal of Chemical Physics</i> , 2017, 146, 144701.	3.0	7
54	Deciphering second harmonic generation signals. <i>Chemical Science</i> , 2021, 12, 15134-15142.	7.4	7

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55	Coarse-grained lanthanoid chloride aqueous solutions. <i>Journal of Molecular Liquids</i> , 2010, 153, 107-111.	4.9	6
56	Activity Coefficients of Aqueous Sodium, Calcium, and Europium Nitrate Solutions from Osmotic Equilibrium MD Simulations. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7726-7736.	2.6	6
57	Simulating Osmotic Equilibria: A New Tool for Calculating Activity Coefficients in Concentrated Aqueous Salt Solutions. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9647-9658.	2.6	5
58	How Acidity Rules Synergism and Antagonism in Liquid-liquid Extraction by Lipophilic Extractants? Part I: Determination of Nanostructures and Free Energies of Transfer. <i>Solvent Extraction and Ion Exchange</i> , 2022, 40, 86-105.	2.0	5
59	How Ion Pair Formation Drives Adsorption in the Electrical Double Layer: Molecular Dynamics of Charged Silica-water Interfaces in the Presence of Divalent Alkaline Earth Ions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20551-20569.	3.1	5
60	Theory of Ternary Fluids under Centrifugal Fields. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12054-12062.	2.6	5
61	How Adsorption of Pheromones on Aerosols Controls Their Transport. <i>ACS Central Science</i> , 2020, 6, 1628-1638.	11.3	4
62	Liquid/liquid interface in periodic boundary condition. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1178-1187.	2.8	4
63	Microemulsion as Model to Predict Free Energy of Transfer of Electrolyte in Solvent Extraction. <i>Solvent Extraction and Ion Exchange</i> , 0, , 1-36.	2.0	4
64	Molecular dynamics simulations of Eu(NO ₃) ₃ salt with DMDOHEMA in n-alkanes: Unravelling curvature properties in liquid-liquid extraction. <i>Journal of Molecular Liquids</i> , 2022, 348, 118035.	4.9	4
65	How acidity rules synergism and antagonism in liquid-liquid extraction by lipophilic extractants? Part II: application of the ionic modelling. <i>Solvent Extraction and Ion Exchange</i> , 0, , 1-34.	2.0	3
66	Effect of alkyl chains configurations of tertiary amines on uranium extraction and phase stability - Part II: curvature free energy controlling the ion transfer. <i>Journal of Molecular Liquids</i> , 2022, 349, 118487.	4.9	3
67	Why Local and Non-local Terms are Essential for Second Harmonic Generation Simulation?. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	3
68	Experimentally probing ionic solutions in single-digit nanoconfinement. <i>Journal of Colloid and Interface Science</i> , 2022, 614, 396-404.	9.4	2
69	How Temperature Rise Can Induce Phase Separation in Aqueous Biphasic Solutions. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2731-2736.	4.6	2