

JosÃ© Alberto Maroto-Centeno

List of Publications by Year in descending order

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34
papers

700
citations

623734

14
h-index

552781

26
g-index

34
all docs

34
docs citations

34
times ranked

724
citing authors

#	ARTICLE	IF	CITATIONS
1	Gel swelling theories: the classical formalism and recent approaches. <i>Soft Matter</i> , 2011, 7, 10536.	2.7	287
2	Introductory analysis of BÃ©nardâ€™Marangoni convection. <i>European Journal of Physics</i> , 2007, 28, 311-320.	0.6	42
3	Charge reversal in real colloids: Experiments, theory and simulations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 319, 103-108.	4.7	38
4	Effect of the Counterion Valence on the Behavior of Thermo-Sensitive Gels and Microgels: A Monte Carlo Simulation Study. <i>Macromolecules</i> , 2012, 45, 8872-8879.	4.8	36
5	Optimization of the heterocoagulation process of polymer colloids with different particle size. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1995, 96, 121-133.	4.7	35
6	Particle interactions in colloidal aggregation by Brownian dynamics simulation. <i>Physical Review E</i> , 1999, 59, 1943-1947.	2.1	26
7	Interaction between Ideal Neutral Nanogels: A Monte Carlo Simulation Study. <i>Macromolecules</i> , 2017, 50, 2229-2238.	4.8	24
8	Size-exclusion partitioning of neutral solutes in crosslinked polymer networks: A Monte Carlo simulation study. <i>Journal of Chemical Physics</i> , 2014, 140, 204910.	3.0	22
9	Testing one component plasma models on colloidal overcharging phenomena. <i>Journal of Chemical Physics</i> , 2006, 125, 144906.	3.0	20
10	Influence of multiple light scattering on the estimation of homocoagulation and heterocoagulation rate constants by turbidity measurements. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 132, 153-158.	4.7	15
11	On the kinetics of heteroaggregation versus electrolyte concentration: comparison between simulation and experiment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 151, 473-481.	4.7	15
12	Colloidal stability in homo- and hetero-coagulation processes. Comparison between theoretical and experimental data. , 1995, , 89-93.		14
13	Influence of the adsorption of non-ionic surfactant Triton X-100 on the homocoagulation and heterocoagulation processes of model colloids with equal sizes and opposite sign of charge. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 145, 271-279.	4.7	14
14	Use of a Mariotte bottle for the experimental study of the transition from laminar to turbulent flow. <i>American Journal of Physics</i> , 2002, 70, 698-701.	0.7	14
15	Direct determination of forces between charged nanogels through coarse-grained simulations. <i>Physical Review E</i> , 2018, 97, 042608.	2.1	14
16	Estimation of kinetic rate constants by turbidity and nephelometry techniques in a homocoagulation process with different model colloids. <i>Colloid and Polymer Science</i> , 1997, 275, 1148-1155.	2.1	10
17	Prediction of fuel economy performance of engine lubricants based on laboratory bench tests. <i>Tribology International</i> , 2016, 94, 67-70.	5.9	10
18	Coarse-Grained Simulations of Solute Diffusion in Crosslinked Flexible Hydrogels. <i>Macromolecules</i> , 2022, 55, 1495-1504.	4.8	9

#	ARTICLE	IF	CITATIONS
19	Theoretical description of the absorbance versus time curve in a homocoagulation process.. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 140, 23-31.	4.7	8
20	Coarse-grained simulations of diffusion controlled release of drugs from neutral nanogels: Effect of excluded volume interactions. Journal of Chemical Physics, 2020, 152, 024107.	3.0	8
21	Universal description of steric hindrance in flexible polymer gels. Physical Chemistry Chemical Physics, 2021, 23, 14997-15002.	2.8	8
22	The approximate determination of the critical temperature of a liquid by measuring surface tension versus the temperature. European Journal of Physics, 2004, 25, 297-301.	0.6	7
23	Experimental evaluation of the drag coefficient for smooth spheres by free fall experiments in old mines. European Journal of Physics, 2005, 26, 323-330.	0.6	6
24	Description of additive colour mixing exhibits by using PC-designed Maxwell discs. Physics Education, 2006, 41, 448-452.	0.5	5
25	Theoretical and experimental comparison of the colloid stability of two polystyrene latexes with different sign and value of the surface charge. Colloid and Polymer Science, 1998, 276, 453-458.	2.1	4
26	Coarse-grained simulation study of dual-stimuli-responsive nanogels. Colloid and Polymer Science, 2016, 294, 735-741.	2.1	3
27	Computational aids for the estimation of the molecular weight of petroleum oils from kinematic viscosity measurements. Petroleum Chemistry, 2007, 47, 87-91.	1.4	2
28	Computational analysis of the accuracy in the evaluation of the mean molecular weight of petroleum oils from the ASTM Standard D 2502-92. Journal of Petroleum Science and Engineering, 2009, 69, 89-92.	4.2	2
29	Influence of the ionic strength in the heterocoagulation process between bare and surfactant-coated latexes. Colloid and Polymer Science, 1999, 277, 881-885.	2.1	1
30	Use of Kinematic Viscosity Data for the Evaluation of the Molecular Weight of Petroleum Oils. Journal of Chemical Education, 2010, 87, 323-325.	2.3	1
31	Evaluation of the Lorentz law by using a Barlow wheel. IEEE Transactions on Education, 2000, 43, 316-320.	2.4	0
32	Theoretical approach to a better understanding of gelation in the framework of petroleum industry: role played by different parameters. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 403-409.	0.9	0
33	Experimental testing and theoretical characterization of an oil gelation process under shearing. Petroleum Chemistry, 2015, 55, 252-258.	1.4	0
34	Advances in the Understanding of Gelation in the Framework of the Test ASTM D5133. Journal of Testing and Evaluation, 2013, 41, 305-312.	0.7	0