MarÃ-a L JimÃ©nez

List of Publications by Year
in descending order

26 papers	477 citations	623734 14 h-index	677142 22 g-index
27 all docs	27 docs citations	27 times ranked	572 citing authors

#	Article	IF	Citations
1	Determination of the size distribution of non-spherical nanoparticles by electric birefringence-based methods. Scientific Reports, 2018, 8, 9502.	3.3	47
2	Hydrolysis versus Ion Correlation Models in Electrokinetic Charge Inversion: Establishing Application Ranges. Langmuir, 2012, 28, 6786-6793.	3.5	43
3	Materials selection for optimum energy production by double layer expansion methods. Journal of Power Sources, 2014, 261, 371-377.	7.8	40
4	Use of Soft Electrodes in Capacitive Deionization of Solutions. Environmental Science & Technology, 2017, 51, 5326-5333.	10.0	40
5	Temperature Effects on Energy Production by Salinity Exchange. Environmental Science & Technology, 2014, 48, 12378-12385.	10.0	38
6	Compensating for Electrode Polarization in Dielectric Spectroscopy Studies of Colloidal Suspensions: Theoretical Assessment of Existing Methods. Frontiers in Chemistry, 2016, 4, 30.	3.6	35
7	Numerical and Analytical Studies of the Electrical Conductivity of a Concentrated Colloidal Suspension. Journal of Physical Chemistry B, 2006, 110, 6179-6189.	2.6	27
8	Dynamic Electrophoretic Mobility of Spherical Colloidal Particles in Salt-Free Concentrated Suspensions. Langmuir, 2008, 24, 2395-2406.	3.5	27
9	Electric Birefringence of Dispersions of Platelets. Langmuir, 2012, 28, 251-258.	3.5	24
10	Effect of Solution Composition on the Energy Production by Capacitive Mixing in Membrane-Electrode Assembly. Journal of Physical Chemistry C, 2014, 118, 15590-15599.	3.1	22
11	Electrophoresis and Dielectric Dispersion of Spherical Polyelectrolyte Brushes. Langmuir, 2012, 28, 16372-16381.	3.5	20
12	Stacking of capacitive cells for electrical energy production by salinity exchange. Journal of Power Sources, 2016, 318, 283-290.	7.8	18
13	Electrokinetics of concentrated suspensions of spheroidal hematite nanoparticles. Soft Matter, 2012, 8, 3596.	2.7	16
14	Electric birefringence spectroscopy of montmorillonite particles. Soft Matter, 2016, 12, 4923-4931.	2.7	16
15	Broadband Dielectric Spectra of Spheroidal Hematite Particles. Journal of Physical Chemistry B, 2003, 107, 12192-12200.	2.6	14
16	Electric birefringence of carbon nanotubes: Single- vs double-walled. Carbon, 2018, 126, 77-84.	10.3	13
17	Electro-Orientation of Silver Nanowires in Alternating Fields. Langmuir, 2019, 35, 687-694.	3.5	10
18	Polymer-induced orientation of nanowires under electric fields. Journal of Colloid and Interface Science, 2021, 591, 58-66.	9.4	8

#	Article	IF	Citations
19	Analysis of the electro-optical response of graphene oxide dispersions under alternating fields. Carbon, 2019, 144, 395-401.	10.3	6
20	Effect of the volume fraction of solids on the concentration polarization around spheroidal hematite particles. Soft Matter, 2011, 7, 3286.	2.7	4
21	Electric Permittivity and Dynamic Mobility of Dilute Suspensions of Platelike Gibbsite Particles. Langmuir, 2015, 31, 7934-7942.	3.5	2
22	Charge and Potential Distribution in the Electrical Double Layer of Porous Materials: Models. Interface Science and Technology, 2018, , 3-18.	3.3	2
23	Electric Birefringence of Gold Nanorods: Effect of Surfactant Coating. Journal of Physical Chemistry C, 2019, 123, 26623-26632.	3.1	2
24	AC Electrokinetics of Salt-Free Multilayered Polymer-Grafted Particles. Polymers, 2020, 12, 2097.	4.5	2
25	Electro-orientation of Ag nanowires in viscoelastic fluids. Journal of Colloid and Interface Science, 2022, 622, 700-707.	9.4	1
26	The Electrical Double Layer as a Capacitor. Evaluation of Capacitance in Different Solutions: Effect of Ion Concentrations, Sizes, and Valencies. Interface Science and Technology, 2018, , 39-62.	3.3	0