

Joan Rosell-Llompart

List of Publications by Year in descending order

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31
papers

1,589
citations

430754

18
h-index

454834

30
g-index

31
all docs

31
docs citations

31
times ranked

1531
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of monodisperse droplets 0.3 to 4 μm in diameter from electrified cone-jets of highly conducting and viscous liquids. <i>Journal of Aerosol Science</i> , 1994, 25, 1093-1119.	1.8	237
2	Electrosprays in the cone-jet mode: From Taylor cone formation to spray development. <i>Journal of Aerosol Science</i> , 2018, 125, 2-31.	1.8	180
3	Sizing nanoparticles and ions with a short differential mobility analyzer. <i>Journal of Aerosol Science</i> , 1996, 27, 695-719.	1.8	139
4	Differential mobility analysis of molecular ions and nanometer particles. <i>TrAC - Trends in Analytical Chemistry</i> , 1998, 17, 328-339.	5.8	133
5	Ultrafast 3D printing with submicrometer features using electrostatic jet deflection. <i>Nature Communications</i> , 2020, 11, 753.	5.8	114
6	Back to Normal: An Old Physics Route to Reduce SARS-CoV-2 Transmission in Indoor Spaces. <i>ACS Nano</i> , 2020, 14, 7704-7713.	7.3	88
7	Generation of submicron monodisperse aerosols in electrosprays. <i>Journal of Aerosol Science</i> , 1990, 21, S673-S676.	1.8	84
8	Highly aligned electrospun nanofibers by elimination of the whipping motion. <i>Journal of Applied Polymer Science</i> , 2012, 125, 2433-2441.	1.3	81
9	In electrospray ionization, how much pull does an ion need to escape its droplet prison?. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 1147-1157.	1.2	76
10	Polymer solution electrospraying: A tool for engineering particles and films with controlled morphology. <i>Journal of Aerosol Science</i> , 2018, 125, 93-118.	1.8	49
11	Turbulence in pneumatic flow focusing and flow blurring regimes. <i>Physical Review E</i> , 2008, 77, 036321.	0.8	48
12	Solvation studies of electrospray ionsâ€™ method and early results. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 1241-1247.	1.2	41
13	Growth dynamics of granular films produced by electrospray. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 536-545.	5.0	38
14	Aerodynamic focusing of heavy molecules in seeded supersonic jets. <i>Journal of Chemical Physics</i> , 1989, 91, 2603-2615.	1.2	34
15	The Role of Electrical Polarity in Electrospinning and on the Mechanical and Structural Properties of As-Spun Fibers. <i>Materials</i> , 2020, 13, 4169.	1.3	32
16	Efficient Lagrangian simulation of electrospray droplets dynamics. <i>Journal of Aerosol Science</i> , 2012, 47, 78-93.	1.8	26
17	A Comprehensive Framework for the Numerical Simulation of Evaporating Electrosprays. <i>Aerosol Science and Technology</i> , 2015, 49, 436-448.	1.5	21
18	Electrostatic effects in inertial impactors. <i>Journal of Aerosol Science</i> , 1997, 28, 1029-1048.	1.8	18

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19	Two-way coupled numerical simulation of electrospray with induced gas flow. <i>Journal of Aerosol Science</i> , 2013, 65, 121-133.	1.8	18
20	Increasing reaction time in Hummers's™ method towards well exfoliated graphene oxide of low oxidation degree. <i>Ceramics International</i> , 2021, 47, 22130-22137.	2.3	18
21	Synthesis of tungsten carbide on Al-SBA-15 mesoporous materials by carburization. <i>Microporous and Mesoporous Materials</i> , 2016, 219, 19-28.	2.2	17
22	Turbulent transition in impactor jets and its effects on impactor resolution. <i>Journal of Aerosol Science</i> , 2002, 33, 459-476.	1.8	16
23	Determining the Composition of Liquid Droplets in a Gas of Different Composition. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 3081-3084.	1.8	14
24	Ultrafast electrohydrodynamic 3D printing with in situ jet speed monitoring. <i>Materials and Design</i> , 2021, 206, 109791.	3.3	13
25	Ion-assisted collection of Nylon-4,6 electrospun nanofibers. <i>Polymer</i> , 2010, 51, 5221-5228.	1.8	12
26	Continuous droplets' charge method for the Lagrangian simulation of electrostatic sprays. <i>Journal of Electrostatics</i> , 2014, 72, 357-364.	1.0	12
27	Direct growth of hydrotalcite nanolayers on carbon fibers by electrospinning. <i>Applied Clay Science</i> , 2014, 101, 461-467.	2.6	9
28	Monodisperse droplets and particles by efficient neutralization of electrosprays. <i>Journal of Aerosol Science</i> , 2022, 160, 105909.	1.8	9
29	Scaling up of extractor-free electrosprays in linear arrays. <i>Chemical Engineering Science</i> , 2019, 195, 281-298.	1.9	6
30	Patterning with Aligned Electrospun Nanofibers by Electrostatic Deflection of Fast Jets. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	6
31	Oriented Single-Walled Carbon Nanotubes as Saturable Absorber for Passive Q-Switching of a Tm:KLuW Microchip Laser. , 2015, , .		0