

Somenath Ganguly

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

147
citations

7
h-index

9
g-index

32
ext. papers

181
ext. citations

3.3
avg, IF

3.63
L-index

#	Paper	IF	Citations
31	Distribution of microencapsulated phase change material on a plate, and inhibited build-up of temperature in response to a constant heat flux. <i>International Journal of Energy Research</i> , 2021 , 45, 11231-11244	4.5	11244
30	N-Doping in Precursor Sol: Some Observations in Reference to In Situ-Grown Carbon Film Electrodes for Supercapacitor Applications. <i>Energy Technology</i> , 2020 , 8, 1901479	3.5	5
29	Growth of Film Electrodes through Electrospray Coating of Precursor Sol for Use in Asymmetric Supercapacitor. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4428-4436	3.9	4
28	Behavior of alginate-gelatin blended gel with embedded macrovoids: Stress-induced changes and the solute release characteristics. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49035	2.9	
27	Mixed metal oxides in synergy at nanoscale: Electrospray induced porosity of in situ grown film electrode for use in electrochemical capacitor. <i>Electrochimica Acta</i> , 2020 , 347, 136277	6.7	7
26	Vertically aligned MnO ₂ nanosheet electrode of controllable mass loading, counter to nanoparticulate carbon film electrode for use in supercapacitor. <i>Journal of Energy Storage</i> , 2020 , 32, 101851	7.8	2
25	Fluidic embedding of additional macroporosity in alginate-gelatin composite structure for biomimetic application. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020 , 31, 2396-2417	3.5	
24	Mechanical behaviour of alginate film with embedded voids under compression-decompression cycles. <i>Scientific Reports</i> , 2019 , 9, 13193	4.9	2
23	A novel carbon film electrode for supercapacitor by deposition of precursor sol on the current collector, followed by carbonization and activation in situ. <i>Ionics</i> , 2019 , 25, 2373-2382	2.7	5
22	N-doped porous carbon film electrodes for electrochemical capacitor, made by electrospray of sol precursors. <i>Carbon</i> , 2019 , 154, 33-41	10.4	9
21	Alginate-chitosan composite hydrogel film with macrovoids in the inner layer for biomedical applications. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47599	2.9	11
20	Charge transport in carbon electrodes made by electrospray of precursor sol and subsequent carbonization in situ. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 2149-2157	2.6	2
19	Activated Xerogel Nanoporous-materials For Energy Storage Applications. <i>Materials Today: Proceedings</i> , 2018 , 5, 9754-9759	1.4	2
18	Mechanical behaviour of a hydrogel film with embedded voids under the tensile load. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 87, 665-675	2.3	5
17	Drying stresses in precursor gel: effect on pore connectivity in carbonized form, and resulting performance in a supercapacitor electrode. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 88, 395-406	2.3	6
16	Alginate-gelatin blend with embedded voids for controlled release applications. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	3
15	Charge transport in activated carbon electrodes: the behaviour of three electrolytes vis-à-vis their specific conductance. <i>Ionics</i> , 2017 , 23, 2037-2044	2.7	6

14	Electrospray of Carbon Precursor Sol on Supercapacitor Current Collector: Effect of Fast Evaporation of Solvent. <i>ECS Transactions</i> , 2017 , 80, 431-439	1	4
13	Diffusion in and around alginate and chitosan films with embedded sub-millimeter voids. <i>Materials Science and Engineering C</i> , 2016 , 59, 61-69	8.3	7
12	Electrospray of Precursor Sol on Carbon Paper and in Situ Carbonization for Making Supercapacitor Electrodes. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 10073-10083	3.9	10
11	Production of light oil by injection of hot inert gas. <i>Heat and Mass Transfer</i> , 2016 , 52, 1071-1080	2.2	
10	Bubble formation in complex fluids using an orifice in throat arrangement. <i>Experimental Thermal and Fluid Science</i> , 2015 , 64, 62-69	3	7
9	Diffusion of Moisture from Hydrogel Scaffold with Induced Porosity from Self-Assembled Bubbles. <i>Drying Technology</i> , 2015 , 33, 336-345	2.6	4
8	In Situ Combustion of Light Oil: Stoichiometric, Kinetic, and Thermodynamic Analyses from the Flow Experiments. <i>Combustion Science and Technology</i> , 2015 , 187, 1542-1561	1.5	4
7	Bubble pinch-off in a cross-flowing biopolymer stream. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 767-776	2.8	1
6	Use of orifice-in-throat device to make alginate scaffolds with embedded voids of sub-millimeter tunable dimensions. <i>Microsystem Technologies</i> , 2014 , 20, 1359-1364	1.7	4
5	Drying characteristics and evolution of the pore space in alginate scaffold with embedded sub-millimeter voids. <i>Journal of Sol-Gel Science and Technology</i> , 2013 , 68, 254-260	2.3	4
4	Effect of pressure pulsing on concentration boundary layer over membrane numerical investigation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2013 , 8, 519-526	1.3	3
3	Leak-off During Placement of Cr(III)-Partially Hydrolyzed Polyacrylamide Gelling Solution in Fractured Porous Media. <i>Transport in Porous Media</i> , 2010 , 81, 443-460	3.1	7
2	Displacement of Cr(III)-Partially Hydrolyzed Polyacrylamide Gelling Solution in a Fracture in Porous Media. <i>Transport in Porous Media</i> , 2010 , 84, 201-218	3.1	12
1	Rupture of Polyacrylamide Gel in a Tube in Response to Aqueous Pressure Gradients. <i>Soft Materials</i> , 2009 , 7, 37-53	1.7	11