Somenath Ganguly

List of Publications by Year
in descending order

32	216	1039880 9	1125617 13
papers	citations	h-index	g-index

32	32	32	218
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	N-doped porous carbon film electrodes for electrochemical capacitor, made by electrospray of sol precursors. Carbon, 2019, 154, 33-41.	5.4	16
2	Alginateâ€“chitosan composite hydrogel film with macrovoids in the inner layer for biomedical applications. Journal of Applied Polymer Science, 2019, 136, 47599.	1.3	16
3	Rupture of Polyacrylamide Gel in a Tube in Response to Aqueous Pressure Gradients. Soft Materials, 2009, 7, 37-53.	0.8	14
4	Displacement of Cr(III)â€“Partially Hydrolyzed Polyacrylamide Gelling Solution in a Fracture in Porous Media. Transport in Porous Media, 2010, 84, 201-218.	1.2	13
5	Electrospray of Precursor Sol on Carbon Paper and in Situ Carbonization for Making Supercapacitor Electrodes. Industrial & Engineering Chemistry Research, 2016, 55, 10073-10083.	1.8	13
6	Bubble formation in complex fluids using an orifice in throat arrangement. Experimental Thermal and Fluid Science, 2015, 64, 62-69.	1.5	11
7	Charge transport in activated carbon electrodes: the behaviour of three electrolytes vis-Ã-vis their specific conductance. Ionics, 2017, 23, 2037-2044.	1.2	11
8	Drying stresses in precursor gel: effect on pore connectivity in carbonized form, and resulting performance in a supercapacitor electrode. Journal of Sol-Gel Science and Technology, 2018, 88, 395-406.	1.1	11
9	Mixed metal oxides in synergy at nanoscale: Electrospray induced porosity of in situ grown film electrode for use in electrochemical capacitor. Electrochimica Acta, 2020, 347, 136277.	2.6	11
10	Diffusion in and around alginate and chitosan films with embedded sub-millimeter voids. Materials Science and Engineering C, 2016, 59, 61-69.	3.8	9
11	Vertically aligned MnO2 nanosheet electrode of controllable mass loading, counter to nanoparticulate carbon film electrode for use in supercapacitor. Journal of Energy Storage, 2020, 32, 101851.	3.9	9
12	A novel carbon film electrode for supercapacitor by deposition of precursor sol on the current collector, followed by carbonization and activation in situ. Ionics, 2019, 25, 2373-2382.	1.2	8
13	Leak-off During Placement of Cr(III)-Partially Hydrolyzed Polyacrylamide Gelling Solution in Fractured Porous Media. Transport in Porous Media, 2010, 81, 443-460.	1.2	7
14	Drying characteristics and evolution of the pore space in alginate scaffold with embedded sub-millimeter voids. Journal of Sol-Gel Science and Technology, 2013, 68, 254-260.	1.1	6
15	Electrospray of Carbon Precursor Sol on Supercapacitor Current Collector: Effect of Fast Evaporation of Solvent. ECS Transactions, 2017, 80, 431-439.	0.3	6
16	Mechanical behaviour of alginate film with embedded voids under compression-decompression cycles. Scientific Reports, 2019, 9, 13193.	1.6	6
17	Nâ€Ðoping in Precursor Sol: Some Observations in Reference to In Situâ€Grown Carbon Film Electrodes for Supercapacitor Applications. Energy Technology, 2020, 8, 1901479.	1.8	6
18	Growth of Film Electrodes through Electrospray Coating of Precursor Sol for Use in Asymmetric Supercapacitor. Industrial & Engineering Chemistry Research, 2020, 59, 4428-4436.	1.8	6

#	Article	IF	Citations
19	Use of orifice-in-throat device to make alginate scaffolds with embedded voids of sub-millimeter tunable dimensions. Microsystem Technologies, 2014, 20, 1359-1364.	1.2	5
20	In Situ Combustion of Light Oil: Stoichiometric, Kinetic, and Thermodynamic Analyses from the Flow Experiments. Combustion Science and Technology, 2015, 187, 1542-1561.	1.2	5
21	Mechanical behaviour of a hydrogel film with embedded voids under the tensile load. Journal of Sol-Gel Science and Technology, 2018, 87, 665-675.	1.1	5
22	Effect of pressure pulsing on concentration boundary layer over membraneâ€"a numerical investigation. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 519-526.	0.8	4
23	Diffusion of Moisture from Hydrogel Scaffold with Induced Porosity from Self-Assembled Bubbles. Drying Technology, 2015, 33, 336-345.	1.7	4
24	Alginateâ€gelatin blend with embedded voids for controlled release applications. Journal of Applied Polymer Science, 2017, 134, .	1.3	4
25	Activated Xerogel Nanoporous-materials For Energy Storage Applications. Materials Today: Proceedings, 2018, 5, 9754-9759.	0.9	4
26	Charge transport in carbon electrodes made by electrospray of precursor sol and subsequent carbonization in situ. Journal of Solid State Electrochemistry, 2018, 22, 2149-2157.	1.2	2
27	Distribution of microencapsulated phase change material on a plate, and inhibited buildâ€up of temperature in response to a constant heat flux. International Journal of Energy Research, 2021, 45, 11231-11244.	2.2	2
28	Bubble pinch-off in a cross-flowing biopolymer stream. Microfluidics and Nanofluidics, 2015, 19, 767-776.	1.0	1
29	Convolutional neural network based prediction of effective diffusivity from microscope images. Journal of Applied Physics, 2022, 131, 214901.	1.1	1
30	Production of light oil by injection of hot inert gas. Heat and Mass Transfer, 2016, 52, 1071-1080.	1.2	0
31	Fluidic embedding of additional macroporosity in alginate-gelatin composite structure for biomimetic application. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 2396-2417.	1.9	0
32	Behavior of alginateâ€"gelatin blended gel with embedded macrovoids: Stressâ€induced changes and the solute release characteristics. Journal of Applied Polymer Science, 2020, 137, 49035.	1.3	0