

Srinivasan Mp

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118
papers

4,124
citations

32
h-index

62
g-index

120
ext. papers

4,553
ext. citations

5.5
avg, IF

5.71
L-index

#	Paper	IF	Citations
118	Hydrothermal conversion of biomass waste to activated carbon with high porosity: A review. <i>Chemical Engineering Journal</i> , 2016 , 283, 789-805	14.7	614
117	Novel activation process for preparing highly microporous and mesoporous activated carbons. <i>Carbon</i> , 2001 , 39, 877-886	10.4	246
116	Preparation of high-surface-area activated carbons from coconut shell. <i>Microporous and Mesoporous Materials</i> , 1999 , 27, 11-18	5.3	201
115	Preparation of Mesoporous High-Surface-Area Activated Carbon. <i>Advanced Materials</i> , 2000 , 12, 62-65	24	195
114	Self-assembled molecular films of aminosilanes and their immobilization capacities. <i>Langmuir</i> , 2004 , 20, 2309-14	4	192
113	Mesoporous high-surface-area activated carbon. <i>Microporous and Mesoporous Materials</i> , 2001 , 43, 267-275	5.3	177
112	Caffeine extraction rates from coffee beans with supercritical carbon dioxide. <i>AIChE Journal</i> , 1992 , 38, 761-770	3.6	125
111	Thermogravimetric investigation of hydrochar-lignite co-combustion. <i>Bioresource Technology</i> , 2012 , 123, 646-52	11	123
110	Mesoporous activated carbons with enhanced porosity by optimal hydrothermal pre-treatment of biomass for supercapacitor applications. <i>Microporous and Mesoporous Materials</i> , 2015 , 218, 55-61	5.3	118
109	Production of high surface area mesoporous activated carbons from waste biomass using hydrogen peroxide-mediated hydrothermal treatment for adsorption applications. <i>Chemical Engineering Journal</i> , 2015 , 273, 622-629	14.7	116
108	Recent advances in production and upgrading of bio-oil from biomass: A critical overview. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 5101-5118	6.8	107
107	Li-ion vs. Na-ion capacitors: A performance evaluation with coconut shell derived mesoporous carbon and natural plant based hard carbon. <i>Chemical Engineering Journal</i> , 2017 , 316, 506-513	14.7	64
106	A simple method for developing mesoporosity in activated carbon. <i>Separation and Purification Technology</i> , 2003 , 31, 47-52	8.3	64
105	Supercritical fluid desorption from activated carbon. <i>Chemical Engineering Science</i> , 1990 , 45, 1885-1895	4.4	63
104	Langmuir-blodgett multilayers of polymer-merocyanine-dye mixtures. <i>Thin Solid Films</i> , 1987 , 146, 209-220	2.2	58
103	Effect of Shear Stress within the Spinneret on Hollow Fiber Membrane Morphology and Separation Performance. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 3930-3938	3.9	57
102	Highly mesoporous carbon from Teak wood sawdust as prospective electrode for the construction of high energy Li-ion capacitors. <i>Electrochimica Acta</i> , 2017 , 228, 131-138	6.7	56

101	Multilayered gold-nanoparticle/polyimide composite thin film through layer-by-layer assembly. <i>Langmuir</i> , 2007 , 23, 10102-8	4	56
100	Enhanced super-hydrophobic and switching behavior of ZnO nanostructured surfaces prepared by simple solution-immersion successive ionic layer adsorption and reaction process. <i>Journal of Colloid and Interface Science</i> , 2011 , 363, 51-8	9.3	54
99	Effect of Ion Exchange and Dehydration Temperature on the Adsorption and Diffusion of Gases in ETS-4. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 5281-5290	3.9	52
98	Gas separation performance of poly(4-vinylpyridine)/polyetherimide composite hollow fibers. <i>Journal of Membrane Science</i> , 2001 , 182, 111-123	9.6	52
97	Enhanced second harmonic generation from multilayered langmuir/blodgett films of dye. <i>Optics Communications</i> , 1987 , 61, 351-356	2	51
96	Synthesis of magnetic carbon nanocomposites by hydrothermal carbonization and pyrolysis. <i>Environmental Chemistry Letters</i> , 2018 , 16, 821-844	13.3	48
95	Fabrication of advance magnetic carbon nano-materials and their potential applications: A review. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 102812	6.8	43
94	An overview of microwave hydrothermal carbonization and microwave pyrolysis of biomass. <i>Reviews in Environmental Science and Biotechnology</i> , 2018 , 17, 813-837	13.9	43
93	Application of direct covalent molecular assembly in the fabrication of polyimide ultrathin films. <i>Langmuir</i> , 2005 , 21, 3389-95	4	42
92	Fabrication of multi-layer composite hollow fiber membranes for gas separation. <i>Journal of Membrane Science</i> , 1999 , 152, 211-225	9.6	42
91	Supported lipid bilayers lifted from the substrate by layer-by-layer polyion cushions on self-assembled monolayers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003 , 28, 319-329	6	40
90	Future applications of ordered polymeric thin films. <i>Thin Solid Films</i> , 1987 , 152, 377-403	2.2	39
89	Layer-by-layer assembled gold nanoparticle films on amine-terminated substrates. <i>Journal of Colloid and Interface Science</i> , 2008 , 319, 450-6	9.3	35
88	Modeling gas adsorption and transport in small-pore titanium silicates. <i>Langmuir</i> , 2005 , 21, 4532-46	4	35
87	Enhancing charge-storage capacity of non-volatile memory devices using template-directed assembly of gold nanoparticles. <i>Nanoscale</i> , 2012 , 4, 2296-300	7.7	34
86	Adsorption of ethyl benzene on activated carbon from supercritical CO ₂ . <i>AIChE Journal</i> , 1998 , 44, 2620-2627	3.6	32
85	A- and B-Site Substituted Lanthanum Cobaltite Perovskite as High Temperature Oxygen Sorbent. 1. Thermogravimetric Analysis of Equilibrium and Kinetics. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 154-162	3.9	27
84	Covalent molecular assembly in supercritical carbon dioxide: a comparative study between amine- and anhydride-derivatized surfaces. <i>Langmuir</i> , 2006 , 22, 4092-9	4	27

83	Sub-supercritical liquefaction of sugarcane bagasse for production of bio-oil and char: Effect of two solvents. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 6589-6601	6.8	26
82	Robust, High-Density Zinc Oxide Nanoarrays by Nanoimprint Lithography-Assisted Area-Selective Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 23729-23734	3.8	25
81	Covalent assembly of gold nanoparticles for nonvolatile memory applications. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4619-25	9.5	25
80	Covalent molecular assembly of multilayer dendrimer ultrathin films in supercritical medium. <i>Journal of Colloid and Interface Science</i> , 2007 , 306, 118-27	9.3	25
79	Covalent assembly of gold nanoparticles: an application toward transistor memory. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 9784-90	3.4	23
78	Covalent molecular assembly of oligoimide ultrathin films in supercritical and liquid solvent media. <i>Langmuir</i> , 2005 , 21, 7812-22	4	22
77	Cross-linked polyimide/polythiophene composite films with reduced surface resistivities. <i>Thin Solid Films</i> , 2005 , 479, 95-102	2.2	22
76	Dendrimer-encapsulated Pt nanoparticles in supercritical medium: synthesis, characterization, and application to device fabrication. <i>Journal of Colloid and Interface Science</i> , 2009 , 332, 505-10	9.3	21
75	Patterned Supported Bilayers on Self-Assembled Monolayers: Confinement of Adjacent Mobile Bilayers. <i>Langmuir</i> , 2001 , 17, 7951-7954	4	21
74	Supercritical fluid immobilization of horseradish peroxidase on high surface area mesoporous activated carbon. <i>Journal of Supercritical Fluids</i> , 2016 , 107, 513-518	4.2	20
73	Thermogravimetric Analysis of biosolids pyrolysis in the presence of mineral oxides. <i>Renewable Energy</i> , 2019 , 141, 707-716	8.1	20
72	Copper nanoparticles embedded in a polyimide film for non-volatile memory applications. <i>Materials Letters</i> , 2012 , 68, 287-289	3.3	19
71	Tribological properties of nanoparticle-laden ultrathin films formed by covalent molecular assembly. <i>Langmuir</i> , 2007 , 23, 8299-303	4	19
70	In situ synthesis of high density sub-50 nm ZnO nanopatterned arrays using diblock copolymer templates. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5727-32	9.5	18
69	Entrainment of aqueous subphase in Langmuir-Blodgett films. <i>Thin Solid Films</i> , 1988 , 159, 191-205	2.2	18
68	Friction, adhesion and wear durability of an ultra-thin perfluoropolyether-coated 3-glycidoxypropyltrimethoxy silane self-assembled monolayer on a Si surface. <i>Philosophical Magazine</i> , 2007 , 87, 3209-3227	1.6	17
67	Pd-Pt and Fe-Ni nanoparticles formed by covalent molecular assembly in supercritical carbon dioxide. <i>Journal of Colloid and Interface Science</i> , 2008 , 320, 333-40	9.3	17
66	Macroscopic high density nanodisc arrays of zinc oxide fabricated by block copolymer self-assembly assisted nanoimprint lithography. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21871		16

65	Covalent Molecular Assembly in a Supercritical Medium: Formation of Nanoparticles Encapsulated in Immobilized Dendrimers. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 464-471	3.9	16
64	Characterization of low-k dielectric trench surface cleaning after a fluorocarbon etch. <i>Thin Solid Films</i> , 2004 , 462-463, 250-256	2.2	16
63	Solvothermal co-liquefaction of sugarcane bagasse and polyethylene under sub-supercritical conditions: Optimization of process parameters. <i>Chemical Engineering Research and Design</i> , 2020 , 137, 300-311	5.5	15
62	Structure-related lower surface resistivity and faster doping of poly(thiophene-3-acetic acid-co-3-hexylthiophene) compared with poly(thiophene-3-acetic acid). <i>Materials Chemistry and Physics</i> , 2008 , 112, 223-225	4.4	15
61	Effects of site occupancy, cation relocation, and pore geometry on adsorption kinetics in ETS-4. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3257-61	3.4	15
60	Polythiophene-gold nanoparticle hybrid systems: Langmuir-Blodgett assembly of nanostructured films. <i>Nanoscale</i> , 2013 , 5, 2974-82	7.7	12
59	Synthesis of short chain thiol capped gold nanoparticles, their stabilization and immobilization on silicon surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 390, 149-156	5.1	12
58	Ultra thin films of oligoimide through molecular assembly. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 257-258, 295-299	5.1	12
57	Solubility Measurement, Modeling, and Thermodynamic Functions for para-Methoxyphenylacetic Acid in Pure and Mixed Organic and Aqueous Systems. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 3369-3381	2.8	11
56	Comparative study of microwave and conventional solvothermal synthesis for magnetic carbon nanocomposites and bio-oil from rice husk. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103266	6.8	11
55	Synthesis of 16-Mercaptohexadecanoic acid capped gold nanoparticles and their immobilization on a substrate. <i>Materials Letters</i> , 2012 , 67, 315-319	3.3	11
54	Imidisation of Langmuir-Blodgett films using a supercritical medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 198-200, 527-534	5.1	11
53	Single step peroxidase extraction and oxidation of highly concentrated ethanol and phenol aqueous solutions using supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2016 , 116, 209-214	4.2	10
52	Synthesis of novel magnetic carbon nano-composite from waste biomass: A comparative study of industrially adoptable hydro/solvothermal co-precipitation route. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103519	6.8	10
51	Growth specificity of vertical ZnO nanorods on patterned seeded substrates through integrated chemical process. <i>Materials Chemistry and Physics</i> , 2012 , 133, 126-134	4.4	9
50	Covalent molecular assembly in supercritical carbon dioxide: formation of nanoparticles in immobilized dendrimers within a porous silica gel matrix. <i>Journal of Colloid and Interface Science</i> , 2009 , 333, 679-83	9.3	9
49	Defect engineering by surface chemical state in boron-doped preamorphized silicon. <i>Applied Physics Letters</i> , 2007 , 91, 102112	3.4	9
48	Formation of polythiophene multilayers on solid surfaces by covalent molecular assembly. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 168, 45-54	3.1	8

47	Molecular orientation in mixed LB films containing photochromic molecules. <i>Thin Solid Films</i> , 1997 , 307, 266-273	2.2	8
46	Composite Langmuir-Blodgett films containing polypyrrole and polyimide. <i>Thin Solid Films</i> , 1998 , 327-329, 127-130	2.2	8
45	The impact of nitrogen co-implantation on boron ultra-shallow junction formation and underlying physical understanding. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 154-155, 43-48	3.1	8
44	Ethyl acetate desorption from activated carbon with supercritical carbon dioxide: effect of initial loading. <i>Chemical Engineering Science</i> , 1991 , 46, 371-374	4.4	8
43	On-line diagnostics for Langmuir-Blodgett film growth. <i>Thin Solid Films</i> , 1985 , 134, 209-216	2.2	8
42	Effect of Surrounding Medium on Resistance of a Molecular Monolayer Junction. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 297-302	3.8	7
41	Molecular assembly of materials with covalent bonding: Path to robust structures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 132, 43-47	3.1	7
40	Langmuir-Blodgett film fabricated with dendrimer modified polyimide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 257-258, 183-190	5.1	7
39	Polyimide films from linear and network precursors. <i>Journal of Materials Chemistry</i> , 1999 , 9, 655-659		7
38	Mitigation of scale formation in unbaffled stirred tanks-experimental assessment and quantification. <i>Chemical Engineering Research and Design</i> , 2019 , 146, 11-21	5.5	6
37	Deposition of zwitterionic polymer brushes in a dense gas medium. <i>Journal of Colloid and Interface Science</i> , 2015 , 448, 156-62	9.3	6
36	The effect of interatomic potential in molecular dynamics simulation of low energy ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 228, 240-244	1.2	6
35	Ultra-thin composite films from polyimide and electroactive polymer through covalent molecular assembly. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 257-258, 509-514	5.1	6
34	Langmuir-Blodgett film fabricated with soluble imidized polyimide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 257-258, 451-456	5.1	6
33	Composite LB films of copper octabutoxy phthalocyanine and polyimide. <i>Materials Science and Engineering C</i> , 1999 , 8-9, 103-106	8.3	6
32	Conductive composite films of polyimide and poly(3-dodecylthiophene). <i>Synthetic Metals</i> , 1999 , 105, 1-7	3.6	6
31	Partial molar volumes of ethyl acetate from supercritical CO ₂ desorption data. <i>Journal of Supercritical Fluids</i> , 1991 , 4, 69-71	4.2	6
30	Subdrop ejection from double emulsion drops in shear flow. <i>Journal of Membrane Science</i> , 1986 , 26, 231-236	2.6	6

29	Catalytic co-liquefaction of sugarcane bagasse and polyethylene for bio-oil production under supercritical conditions: Effect of catalysts. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 153, 104944	6	6
28	In situ application of polyelectrolytes in zinc oxide nanorod synthesis: understanding the effects on the structural and optical characteristics. <i>Journal of Colloid and Interface Science</i> , 2013 , 394, 13-9	9.3	5
27	Effect of solvent on hydro-solvothermal co liquefaction of sugarcane bagasse and polyethylene for bio-oil production in ethanol/Water system. <i>Chemical Engineering Research and Design</i> , 2021 , 148, 1060-1069	5.5	5
26	Catalytic upgradation of bio-oil over metal supported activated carbon catalysts in sub-supercritical ethanol. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105059	6.8	5
25	Fabrication of molecular hybrid films of gold nanoparticle and polythiophene by covalent assembly. <i>Thin Solid Films</i> , 2015 , 589, 238-245	2.2	4
24	Covalent molecular assembly: construction of ultrathin multilayer films by a two-dimensional fabrication method. <i>Journal of Colloid and Interface Science</i> , 2013 , 392, 158-166	9.3	4
23	Multi-layered metal nanocrystals in a sol-gel spin-on-glass matrix for flash memory applications. <i>Materials Chemistry and Physics</i> , 2017 , 186, 36-43	4.4	4
22	Synthesis and Controlled Growth of ZnO Nanorods Based Hybrid Device Structure by Aqueous Chemical Method. <i>Advanced Materials Research</i> , 2010 , 123-125, 779-782	0.5	4
21	Understanding of Carbon/Fluorine Co-implant Effect on Boron-Doped Junction Formed during Soak Annealing. <i>Journal of the Electrochemical Society</i> , 2008 , 155, H69	3.9	4
20	Molecular dynamics with phase-shift-based electronic stopping for calibration of ion implantation profiles in crystalline silicon. <i>Thin Solid Films</i> , 2006 , 504, 121-125	2.2	4
19	Estimation and Comparison of Pore Charge on Titania and Zirconia Membranes Prepared by Sol-Gel Route Using Zeta Potential Measurement. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 28, 327-333	2.3	4
18	Production of crude bio-oil and biochar from hydrothermal conversion of jujube stones with metal carbonates. <i>Biofuels</i> , 2018 , 9, 613-623	2	3
17	Ultrathin PFPE Film Systems Fabricated by Covalent Assembly: An Application to Tribology. <i>Tribology Letters</i> , 2012 , 45, 371-378	2.8	3
16	Understanding of Boron Junction Stability in Preamorphized Silicon after Optimized Flash Annealing. <i>Journal of the Electrochemical Society</i> , 2008 , 155, H508	3.9	3
15	Linear and networked blends and copolymers of polyimide. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 3000-3008	2.9	3
14	Effect of Si:Ti ratio on energetic heterogeneity in ETS-4. <i>Chemical Engineering Science</i> , 2004 , 59, 6021-6025	4	3
13	Comprehensive modeling of ion-implant amorphization in silicon. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 124-125, 383-385	3.1	3
12	ADSORPTION AND DESORPTION OF PHENOLS AND DYES ON MICROPOROUS AND MESOPOROUS ACTIVATED CARBONS 2000 ,		3

11	. <i>IEEE Transactions on Components, Hybrids and Manufacturing Technology</i> , 1988 , 11, 184-190		3
10	Nanopackaging solution from clean room to UHV Environment: Hydrogen Passivated Si (100) Substrate Fabrication and Use for Atomic Scale Investigations and Self-Assembled Monolayer Grafting. <i>Procedia Engineering</i> , 2016 , 141, 121-129		3
9	Experimental and simulation study of the flash lamp annealing for boron ultra-shallow junction formation and its stability. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 154-155, 14-19	3.1	2
8	Application of molecular dynamics for low-energy ion implantation in crystalline silicon. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 462		2
7	Analytical damage tables for crystalline silicon. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 463		1
6	MESOPOROUS HIGH-SURFACE-AREA ACTIVATED CARBON PRODUCED FROM COCONUT SHELL 2000 ,		1
5	Fabrication of anti-poisoning core-shell TiO ₂ photocatalytic system through a 4-methoxycalix[7]arene film. <i>Materials Today Chemistry</i> , 2016 , 1-2, 1-6	6.2	1
4	The Impact of Boron Halo on Phosphorus Junction Formation and Stability. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, H179		
3	Continuum modeling of post-implantation damage and the effective plus factor in crystalline silicon at room temperature. <i>Thin Solid Films</i> , 2006 , 504, 269-273	2.2	
2	Bimodal distribution of damage morphology generated by ion implantation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 124-125, 389-391	3.1	
1	Angled XPS Analysis of Low-k Dielectric Surfaces after Cleaning. <i>Solid State Phenomena</i> , 2005 , 103-104, 331-336	0.4	