

Srinivasan Mp

List of Publications by Year in descending order

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118
papers

5,156
citations

117571

34
h-index

91828

69
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120
all docs

120
docs citations

120
times ranked

6318
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal conversion of biomass waste to activated carbon with high porosity: A review. <i>Chemical Engineering Journal</i> , 2016, 283, 789-805.	6.6	876
2	Novel activation process for preparing highly microporous and mesoporous activated carbons. <i>Carbon</i> , 2001, 39, 877-886.	5.4	280
3	Preparation of high-surface-area activated carbons from coconut shell. <i>Microporous and Mesoporous Materials</i> , 1999, 27, 11-18.	2.2	245
4	Preparation of Mesoporous High-Surface-Area Activated Carbon. <i>Advanced Materials</i> , 2000, 12, 62-65.	11.1	219
5	Mesoporous high-surface-area activated carbon. <i>Microporous and Mesoporous Materials</i> , 2001, 43, 267-275.	2.2	213
6	Self-Assembled Molecular Films of Aminosilanes and Their Immobilization Capacities. <i>Langmuir</i> , 2004, 20, 2309-2314.	1.6	212
7	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.	3.3	158
8	Thermogravimetric investigation of hydrochar-lignite co-combustion. <i>Bioresource Technology</i> , 2012, 123, 646-652.	4.8	151
9	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.	2.2	151
10	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.	6.6	149
11	Caffeine extraction rates from coffee beans with supercritical carbon dioxide. <i>AIChE Journal</i> , 1992, 38, 761-770.	1.8	145
12	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.	6.6	90
13	An overview of microwave hydrothermal carbonization and microwave pyrolysis of biomass. <i>Reviews in Environmental Science and Biotechnology</i> , 2018, 17, 813-837.	3.9	82
14	A simple method for developing mesoporosity in activated carbon. <i>Separation and Purification Technology</i> , 2003, 31, 47-52.	3.9	76
15	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, 51-58.	5.0	76
16	Supercritical fluid desorption from activated carbon. <i>Chemical Engineering Science</i> , 1990, 45, 1885-1895.	1.9	73
17	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.	1.8	73
18	Synthesis of magnetic carbon nanocomposites by hydrothermal carbonization and pyrolysis. <i>Environmental Chemistry Letters</i> , 2018, 16, 821-844.	8.3	72

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19	Fabrication of advance magnetic carbon nano-materials and their potential applications: A review. Journal of Environmental Chemical Engineering, 2019, 7, 102812.	3.3	71
20	Highly mesoporous carbon from Teak wood sawdust as prospective electrode for the construction of high energy Li-ion capacitors. Electrochimica Acta, 2017, 228, 131-138.	2.6	66
21	Effect of Ion Exchange and Dehydration Temperature on the Adsorption and Diffusion of Gases in ETS-4. Industrial & Engineering Chemistry Research, 2004, 43, 5281-5290.	1.8	61
22	Multilayered Gold-Nanoparticle/Polyimide Composite Thin Film through Layer-by-Layer Assembly. Langmuir, 2007, 23, 10102-10108.	1.6	60
23	Langmuir-blodgett multilayers of polymer-merocyanine-dye mixtures. Thin Solid Films, 1987, 146, 209-220.	0.8	59
24	Gas separation performance of poly(4-vinylpyridine)/polyetherimide composite hollow fibers. Journal of Membrane Science, 2001, 182, 111-123.	4.1	58
25	Enhanced second harmonic generation from multilayered langmuir/blodgett films of dye. Optics Communications, 1987, 61, 351-356.	1.0	56
26	Sub-supercritical liquefaction of sugarcane bagasse for production of bio-oil and char: Effect of two solvents. Journal of Environmental Chemical Engineering, 2018, 6, 6589-6601.	3.3	49
27	Future applications of ordered polymeric thin films. Thin Solid Films, 1987, 152, 377-403.	0.8	47
28	Fabrication of multi-layer composite hollow fiber membranes for gas separation. Journal of Membrane Science, 1999, 152, 211-225.	4.1	45
29	Modeling Gas Adsorption and Transport in Small-Pore Titanium Silicates. Langmuir, 2005, 21, 4532-4546.	1.6	44
30	Supported lipid bilayers lifted from the substrate by layer-by-layer polyion cushions on self-assembled monolayers. Colloids and Surfaces B: Biointerfaces, 2003, 28, 319-329.	2.5	43
31	Application of Direct Covalent Molecular Assembly in the Fabrication of Polyimide Ultrathin Films. Langmuir, 2005, 21, 3389-3395.	1.6	42
32	Enhancing charge-storage capacity of non-volatile memory devices using template-directed assembly of gold nanoparticles. Nanoscale, 2012, 4, 2296.	2.8	38
33	Layer-by-layer assembled gold nanoparticle films on amine-terminated substrates. Journal of Colloid and Interface Science, 2008, 319, 450-456.	5.0	35
34	Adsorption of ethyl benzene on activated carbon from supercritical CO ₂ . AIChE Journal, 1998, 44, 2620-2627.	1.8	34
35	A- and B-Site Substituted Lanthanum Cobaltite Perovskite as High Temperature Oxygen Sorbent. 1. Thermogravimetric Analysis of Equilibrium and Kinetics. Industrial & Engineering Chemistry Research, 2008, 47, 154-162.	1.8	34
36	Solvothermal co-liquefaction of sugarcane bagasse and polyethylene under sub-supercritical conditions: Optimization of process parameters. Chemical Engineering Research and Design, 2020, 137, 300-311.	2.7	31

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37	Thermogravimetric Analysis of biosolids pyrolysis in the presence of mineral oxides. <i>Renewable Energy</i> , 2019, 141, 707-716.	4.3	30
38	Covalent Assembly of Gold Nanoparticles for Nonvolatile Memory Applications. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4619-4625.	4.0	29
39	Covalent Molecular Assembly in Supercritical Carbon Dioxide: A Comparative Study between Amine- and Anhydride-Derivatized Surfaces. <i>Langmuir</i> , 2006, 22, 4092-4099.	1.6	27
40	Covalent molecular assembly of multilayer dendrimer ultrathin films in supercritical medium. <i>Journal of Colloid and Interface Science</i> , 2007, 306, 118-127.	5.0	26
41	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.	1.5	26
42	Covalent Assembly of Gold Nanoparticles: An Application toward Transistor Memory. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9784-9790.	1.2	24
43	Supercritical fluid immobilization of horseradish peroxidase on high surface area mesoporous activated carbon. <i>Journal of Supercritical Fluids</i> , 2016, 107, 513-518.	1.6	24
44	Cross-linked polyimide-polythiophene composite films with reduced surface resistivities. <i>Thin Solid Films</i> , 2005, 479, 95-102.	0.8	23
45	Dendrimer-encapsulated Pt nanoparticles in supercritical medium: Synthesis, characterization, and application to device fabrication. <i>Journal of Colloid and Interface Science</i> , 2009, 332, 505-510.	5.0	23
46	Covalent Molecular Assembly of Oligoimide Ultrathin Films in Supercritical and Liquid Solvent Media. <i>Langmuir</i> , 2005, 21, 7812-7822.	1.6	22
47	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.	3.3	22
48	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.	3.3	22
49	Patterned Supported Bilayers on Self-Assembled Monolayers: Confinement of Adjacent Mobile Bilayers. <i>Langmuir</i> , 2001, 17, 7951-7954.	1.6	21
50	Tribological Properties of Nanoparticle-Laden Ultrathin Films Formed by Covalent Molecular Assembly. <i>Langmuir</i> , 2007, 23, 8299-8303.	1.6	21
51	Effects of Site Occupancy, Cation Relocation, and Pore Geometry on Adsorption Kinetics in ETS-4. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3257-3261.	1.2	20
52	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.	2.7	20
53	Entrainment of aqueous subphase in Langmuir-Blodgett films. <i>Thin Solid Films</i> , 1988, 159, 191-205.	0.8	19
54	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, 333-340.	5.0	19

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55	Copper nanoparticles embedded in a polyimide film for non-volatile memory applications. <i>Materials Letters</i> , 2012, 68, 287-289.	1.3	19
56	In Situ Synthesis of High Density sub-50 nm ZnO Nanopatterned Arrays Using Diblock Copolymer Templates. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5727-5732.	4.0	19
57	Characterization of low-k dielectric trench surface cleaning after a fluorocarbon etch. <i>Thin Solid Films</i> , 2004, 462-463, 250-256.	0.8	18
58	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.	0.7	18
59	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.	6.7	18
60	Synthesis of 16-Mercaptohexadecanoic acid capped gold nanoparticles and their immobilization on a substrate. <i>Materials Letters</i> , 2012, 67, 315-319.	1.3	18
61	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.	2.6	17
62	Covalent Molecular Assembly in a Supercritical Medium: Formation of Nanoparticles Encapsulated in Immobilized Dendrimers. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 464-471.	1.8	16
63	Structure-related lower surface resistivity and faster doping of poly(thiophene-3-acetic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 <i>Physics</i> , 2008, 112, 223-225.	2.0	16
64	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.	3.3	15
65	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.	2.3	13
66	Molecular orientation in mixed LB films containing photochromic molecules. <i>Thin Solid Films</i> , 1997, 307, 266-273.	0.8	12
67	Imidisation of Langmuir-Blodgett films using a supercritical medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 198-200, 527-534.	2.3	12
68	Ultra thin films of oligoimide through molecular assembly. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 257-258, 295-299.	2.3	12
69	Polythiophene-gold nanoparticle hybrid systems: Langmuir-Blodgett assembly of nanostructured films. <i>Nanoscale</i> , 2013, 5, 2974.	2.8	12
70	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.	1.6	12
71	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.	1.7	11
72	Solubility Measurement, Modeling, and Thermodynamic Functions for <i>p</i> -Methoxyphenylacetic Acid in Pure and Mixed Organic and Aqueous Systems. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 3369-3381.	1.0	11

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73	On-line diagnostics for Langmuir-Blodgett film growth. <i>Thin Solid Films</i> , 1985, 134, 209-216.	0.8	10
74	Ethyl acetate desorption from activated carbon with supercritical carbon dioxide: effect of initial loading. <i>Chemical Engineering Science</i> , 1991, 46, 371-374.	1.9	10
75	Defect engineering by surface chemical state in boron-doped preamorphized silicon. <i>Applied Physics Letters</i> , 2007, 91, 102112.	1.5	10
76	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, 679-683.	5.0	10
77	Growth specificity of vertical ZnO nanorods on patterned seeded substrates through integrated chemical process. <i>Materials Chemistry and Physics</i> , 2012, 133, 126-134.	2.0	10
78	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.	1.7	9
79	Subdrop ejection from double emulsion drops in shear flow. <i>Journal of Membrane Science</i> , 1986, 26, 231-236.	4.1	8
80	Composite Langmuir-Blodgett films containing polypyrrole and polyimide. <i>Thin Solid Films</i> , 1998, 327-329, 127-130.	0.8	8
81	Effect of Surrounding Medium on Resistance of a Molecular Monolayer Junction. <i>Journal of Physical Chemistry C</i> , 2008, 112, 297-302.	1.5	8
82	Deposition of zwitterionic polymer brushes in a dense gas medium. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 156-162.	5.0	8
83	Mitigation of scale formation in unbaffled stirred tanks-experimental assessment and quantification. <i>Chemical Engineering Research and Design</i> , 2019, 146, 11-21.	2.7	8
84	Partial molar volumes of ethyl acetate from supercritical CO ₂ desorption data. <i>Journal of Supercritical Fluids</i> , 1991, 4, 69-71.	1.6	7
85	Polyimide films from linear and network precursors. <i>Journal of Materials Chemistry</i> , 1999, 9, 655-659.	6.7	7
86	Conductive composite films of polyimide and poly(3-dodecylthiophene). <i>Synthetic Metals</i> , 1999, 105, 1-7.	2.1	7
87	Langmuir-Blodgett film fabricated with dendrimer modified polyimide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 257-258, 183-190.	2.3	7
88	Langmuir-Blodgett film fabricated with soluble imidized polyimide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 257-258, 451-456.	2.3	7
89	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.	1.7	7
90	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.	1.3	7

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91	Composite LB films of copper octabutoxy phthalocyanine and polyimide. <i>Materials Science and Engineering C</i> , 1999, 8-9, 103-106.	3.8	6
92	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.	0.6	6
93	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.	2.3	6
94	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.	0.8	6
95	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.	1.1	5
96	Understanding of Boron Junction Stability in Preamorphized Silicon after Optimized Flash Annealing. <i>Journal of the Electrochemical Society</i> , 2008, 155, H508.	1.3	5
97	Ultrathin PFPE Film Systems Fabricated by Covalent Assembly: An Application to Tribology. <i>Tribology Letters</i> , 2012, 45, 371-378.	1.2	5
98	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.	5.0	5
99	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, 13-19.	5.0	5
100	A capacitance sensor for on-line monitoring of ultrathin polymeric film growth. <i>IEEE Transactions on Components, Hybrids and Manufacturing Technology</i> , 1988, 11, 184-190.	0.4	4
101	Effect of Si:Ti ratio on energetic heterogeneity in ETS-4. <i>Chemical Engineering Science</i> , 2004, 59, 6021-6025.	1.9	4
102	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.	1.7	4
103	Linear and networked blends and copolymers of polyimide. <i>Journal of Applied Polymer Science</i> , 2006, 100, 3000-3008.	1.3	4
104	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.	0.3	4
105	Fabrication of molecular hybrid films of gold nanoparticle and polythiophene by covalent assembly. <i>Thin Solid Films</i> , 2015, 589, 238-245.	0.8	4
106	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.	1.7	4
107	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.	2.0	4
108	Production of crude bio-oil and biochar from hydrothermal conversion of jujube stones with metal carbonates. <i>Biofuels</i> , 2018, 9, 613-623.	1.4	4

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109	ADSORPTION AND DESORPTION OF PHENOLS AND DYES ON MICROPOROUS AND MESOPOROUS ACTIVATED CARBONS. , 2000, , .		3
110	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. Procedia Engineering, 2016, 141, 121-129.	1.2	3
111	MESOPOROUS HIGH-SURFACE-AREA ACTIVATED CARBON PRODUCED FROM COCONUT SHELL. , 2000, , .		2
112	Application of molecular dynamics for low-energy ion implantation in crystalline silicon. Journal of Vacuum Science & Technology B, 2006, 24, 462.	1.3	2
113	Experimental and simulation study of the flash lamp annealing for boron ultra-shallow junction formation and its stability. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 154-155, 14-19.	1.7	2
114	Analytical damage tables for crystalline silicon. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 463.	1.6	1
115	Bimodal distribution of damage morphology generated by ion implantation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 124-125, 389-391.	1.7	0
116	Angled XPS Analysis of Low-k Dielectric Surfaces after Cleaning. Solid State Phenomena, 2005, 103-104, 331-336.	0.3	0
117	Continuum modeling of post-implantation damage and the effective plus factor in crystalline silicon at room temperature. Thin Solid Films, 2006, 504, 269-273.	0.8	0
118	The Impact of Boron Halo on Phosphorus Junction Formation and Stability. Electrochemical and Solid-State Letters, 2008, 11, H179.	2.2	0