Sivasubramanian Somu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/12082553/publications.pdf

Version: 2024-02-01

34	580	516710 16	610901 24
papers	citations	h-index	g-index

35	35	35	953
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fabrication of a nanoelectromechanical bistable switch using directed assembly of SWCNTs. Journal Physics D: Applied Physics, 2020, 53, 23LT02.	2.8	5
2	A SWCNT based aptasensor system for antibiotic oxytetracycline detection in water samples. Analytical Methods, 2019, 11, 2692-2699.	2.7	29
3	Frequency Response of a Coupled Magnetoelectric Hexaferrite Film on a Spiral Coil. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	2
4	Magneto-Electric Effect Modeled in a Nonlinear Experiment. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	2
5	Utilizing alternate target deposition to increase the magnetoelectric effect at room temperature in a single phase M-type hexaferrite. MRS Communications, 2017, 7, 97-101.	1.8	6
6	Field Sensors and Tunable Devices Using Magnetoelectric Hexaferrite on Silicon Substrates. IEEE Transactions on Electron Devices, 2016, 63, 3229-3235.	3.0	4
7	Highâ€Rate Nanoscale Offset Printing Process Using Directed Assembly and Transfer of Nanomaterials. Advanced Materials, 2015, 27, 1759-1766.	21.0	19
8	Magnetoelectric excitations in hexaferrites utilizing solenoid coil for sensing applications. Journal of Magnetism and Magnetic Materials, 2015, 393, 423-428.	2.3	9
9	Magnetoelectric sensor excitations in hexaferrite films. Applied Physics Letters, 2015, 106, .	3.3	13
10	Magnetoelectric sensor excitations in hexaferrite slabs. Journal of Applied Physics, 2015, 117, .	2.5	8
11	Structured Carbon Nanotube/Silicon Nanoparticle Anode Architecture for High Performance Lithium-Ion Batteries. Materials Research Society Symposia Proceedings, 2014, 1643, 1.	0.1	0
12	Tensor properties of the magnetoelectric coupling in hexaferrites. Physical Review B, 2014, 89, .	3.2	11
13	Three-Dimensional Crystalline and Homogeneous Metallic Nanostructures Using Directed Assembly of Nanoparticles. ACS Nano, 2014, 8, 4547-4558.	14.6	21
14	Spin coating fabrication of thin film transistors using enriched semiconducting SWNT solution. Electronic Materials Letters, 2013, 9, 505-507.	2.2	2
15	Adhesion of graphene sheet on nano-patterned substrates with nano-pillar array. Journal of Applied Physics, 2013, 113, 244303.	2.5	16
16	Environmental Life Cycle Assessment of a Carbon Nanotube-Enabled Semiconductor Device. Environmental Science & Technology, 2013, 47, 8471-8478.	10.0	33
17	Nanomanufacturing and sustainability: opportunities and challenges. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	15
18	3-D perpendicular assembly of SWNTs for CMOS interconnects. Electronic Materials Letters, 2013, 9, 763-766.	2.2	2

#	Article	IF	Citations
19	High-performance H2S detection by redox reactions in semiconducting carbon nanotube-based devices. Analyst, The, 2013, 138, 7206.	3.5	24
20	Nanomanufacturing and sustainability: opportunities and challenges. , 2013, , 331-336.		3
21	Optical Trapping, Biosensing, and Spectroscopy in a Single Plasmonic Platform. Materials Research Society Symposia Proceedings, 2012, 1414, 15.	0.1	0
22	Highly sensitive microscale in vivo sensor enabled by electrophoretic assembly of nanoparticles for multiple biomarker detection. Lab on A Chip, 2012, 12, 4748.	6.0	19
23	Monopole antenna arrays for optical trapping, spectroscopy, and sensing. Applied Physics Letters, 2011, 98, .	3.3	72
24	Size-Selective Template-Assisted Electrophoretic Assembly of Nanoparticles for Biosensing Applications. Langmuir, 2011, 27, 7301-7306.	3.5	20
25	Single-walled carbon nanotube electromechanical switching behavior with shoulder slip. Journal of Micromechanics and Microengineering, 2011, 21, 045028.	2.6	11
26	Topological Transitions in Carbon Nanotube Networks via Nanoscale Confinement. ACS Nano, 2010, 4, 4142-4148.	14.6	24
27	Large-Scale Nanorods Nanomanufacturing by Electric-Field-Directed Assembly for Nanoscale Device Applications. IEEE Nanotechnology Magazine, 2010, 9, 653-658.	2.0	18
28	Directed Assembly of Polymer Blends Using Nanopatterned Templates. Advanced Materials, 2009, 21, 794-798.	21.0	30
29	Large scale highly organized single-walled carbon nanotube networks for electrical devices. Applied Physics A: Materials Science and Processing, 2009, 96, 373-377.	2.3	14
30	Mechanism of Very Large Scale Assembly of SWNTs in Template Guided Fluidic Assembly Process. Journal of the American Chemical Society, 2009, 131, 804-808.	13.7	28
31	Directed assembly of gold nanoparticle nanowires and networks for nanodevices. Applied Physics Letters, 2007, 91, 063101.	3.3	46
32	Scalable nanotemplate assisted directed assembly of single walled carbon nanotubes for nanoscale devices. Applied Physics Letters, 2007, 90, 243108.	3.3	18
33	Fabrication of Patterned Conducting Polymers on Insulating Polymeric Substrates by Electric-Field-Assisted Assembly and Pattern Transfer. Macromolecular Rapid Communications, 2006, 27, 1826-1832.	3.9	9
34	Large scale directed assembly of nanoparticles using nanotrench templates. Applied Physics Letters, 2006, 89, 193108.	3.3	47