# 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 | Monopole antenna arrays for optical trapping, spectroscopy, and sensing. Applied Physics Letters, 2011, 98, . | 3.3 | 72 |
| 2 | Large scale directed assembly of nanoparticles using nanotrench templates. Applied Physics Letters, 2006, 89, 193108. | 3.3 | 47 |
| 3 | Directed assembly of gold nanoparticle nanowires and networks for nanodevices. Applied Physics Letters, 2007, 91, 063101. | 3.3 | 46 |
| 4 | Environmental Life Cycle Assessment of a Carbon Nanotube-Enabled Semiconductor Device. Environmental Science & Technology, 2013, 47, 8471-8478. | 10.0 | 33 |
| 5 | Directed Assembly of Polymer Blends Using Nanopatterned Templates. Advanced Materials, 2009, 21, 794-798. | 21.0 | 30 |
| 6 | A SWCNT based aptasensor system for antibiotic oxytetracycline detection in water samples. Analytical Methods, 2019, 11, 2692-2699. | 2.7 | 29 |
| 7 | 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 |
| 8 | Topological Transitions in Carbon Nanotube Networks via Nanoscale Confinement. ACS Nano, 2010, 4, 4142-4148. | 14.6 | 24 |
| 9 | High-performance H2S detection by redox reactions in semiconducting carbon nanotube-based devices. Analyst, The, 2013, 138, 7206. | 3.5 | 24 |
| 10 | Three-Dimensional Crystalline and Homogeneous Metallic Nanostructures Using Directed Assembly of Nanoparticles. ACS Nano, 2014, 8, 4547-4558. | 14.6 | 21 |
| 11 | Size-Selective Template-Assisted Electrophoretic Assembly of Nanoparticles for Biosensing Applications. Langmuir, 2011, 27, 7301-7306. | 3.5 | 20 |
| 12 | 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 |
| 13 | Highâ€Rate Nanoscale Offset Printing Process Using Directed Assembly and Transfer of Nanomaterials. Advanced Materials, 2015, 27, 1759-1766. | 21.0 | 19 |
| 14 | Scalable nanotemplate assisted directed assembly of single walled carbon nanotubes for nanoscale devices. Applied Physics Letters, 2007, 90, 243108. | 3.3 | 18 |
| 15 | Large-Scale Nanorods Nanomanufacturing by Electric-Field-Directed Assembly for Nanoscale Device Applications. IEEE Nanotechnology Magazine, 2010, 9, 653-658. | 2.0 | 18 |
| 16 | Adhesion of graphene sheet on nano-patterned substrates with nano-pillar array. Journal of Applied Physics, 2013, 113, 244303. | 2.5 | 16 |
| 17 | Nanomanufacturing and sustainability: opportunities and challenges. Journal of Nanoparticle Research, 2013, 15, 1. | 1.9 | 15 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Magnetoelectric sensor excitations in hexaferrite films. Applied Physics Letters, 2015, 106, . | 3.3 | 13 |
| 20 | Single-walled carbon nanotube electromechanical switching behavior with shoulder slip. Journal of Micromechanics and Microengineering, 2011, 21, 045028. | 2.6 | 11 |
| 21 | Tensor properties of the magnetoelectric coupling in hexaferrites. Physical Review B, 2014, 89, . | 3.2 | 11 |
| 22 | 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 |
| 23 | Magnetoelectric excitations in hexaferrites utilizing solenoid coil for sensing applications. Journal of Magnetism and Magnetic Materials, 2015, 393, 423-428. | 2.3 | 9 |
| 24 | Magnetoelectric sensor excitations in hexaferrite slabs. Journal of Applied Physics, 2015, 117, . | 2.5 | 8 |
| 25 | 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 |
| 26 | Fabrication of a nanoelectromechanical bistable switch using directed assembly of SWCNTs. Journal Physics D: Applied Physics, 2020, 53, 23LT02. | 2.8 | 5 |
| 27 | Field Sensors and Tunable Devices Using Magnetoelectric Hexaferrite on Silicon Substrates. IEEE Transactions on Electron Devices, 2016, 63, 3229-3235. | 3.0 | 4 |
| 28 | Nanomanufacturing and sustainability: opportunities and challenges. , 2013, , 331-336. | | 3 |
| 29 | Spin coating fabrication of thin film transistors using enriched semiconducting SWNT solution. Electronic Materials Letters, 2013, 9, 505-507. | 2.2 | 2 |
| 30 | 3-D perpendicular assembly of SWNTs for CMOS interconnects. Electronic Materials Letters, 2013, 9, 763-766. | 2.2 | 2 |
| 31 | Frequency Response of a Coupled Magnetoelectric Hexaferrite Film on a Spiral Coil. IEEE Magnetics Letters, 2017, 8, 1-4. | 1.1 | 2 |
| 32 | Magneto-Electric Effect Modeled in a Nonlinear Experiment. IEEE Magnetics Letters, 2017, 8, 1-4. | 1.1 | 2 |
| 33 | Optical Trapping, Biosensing, and Spectroscopy in a Single Plasmonic Platform. Materials Research Society Symposia Proceedings, 2012, 1414, 15. | 0.1 | 0 |
| 34 | Structured Carbon Nanotube/Silicon Nanoparticle Anode Architecture for High Performance Lithium-Ion Batteries. Materials Research Society Symposia Proceedings, 2014, 1643, 1. | 0.1 | 0 |