

Sivashankar Krishnamoorthy

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,849
citations

448610

19
h-index

286692

43
g-index

53
all docs

53
docs citations

53
times ranked

3828
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale patterning with block copolymers. <i>Materials Today</i> , 2006, 9, 40-47.	8.3	510
2	Nanoparticle Cluster Arrays for High-Performance SERS through Directed Self-Assembly on Flat Substrates and on Optical Fibers. <i>ACS Nano</i> , 2012, 6, 2056-2070.	7.3	241
3	Field Effects in Plasmonic Photocatalyst by Precise SiO ₂ Thickness Control Using Atomic Layer Deposition. <i>ACS Catalysis</i> , 2011, 1, 300-308.	5.5	151
4	Tuning the Dimensions and Periodicities of Nanostructures Starting from the Same Polystyrene-block-poly(2-vinylpyridine) Diblock Copolymer. <i>Advanced Functional Materials</i> , 2006, 16, 1469-1475.	7.8	91
5	Block Copolymer Micelles as Switchable Templates for Nanofabrication. <i>Langmuir</i> , 2006, 22, 3450-3452.	1.6	69
6	From Fundamental toward Applied SERS: Shared Principles and Divergent Approaches. <i>Advanced Optical Materials</i> , 2018, 6, 1800292.	3.6	65
7	Inherently Reproducible Fabrication of Plasmonic Nanoparticle Arrays for SERS by Combining Nanoimprint and Copolymer Lithography. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1033-1040.	4.0	59
8	Novel supramolecular organizations in melamine complexes with 4,4'-bipyridyl and silver nitrate. <i>Journal of Molecular Structure</i> , 2001, 559, 41-48.	1.8	48
9	Optical Sensors Based on Whispering Gallery Modes in Fluorescent Microbeads: Response to Specific Interactions. <i>Sensors</i> , 2010, 10, 6257-6274.	2.1	46
10	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020, 92, 15745-15756.	3.2	46
11	Enhancing charge-storage capacity of non-volatile memory devices using template-directed assembly of gold nanoparticles. <i>Nanoscale</i> , 2012, 4, 2296.	2.8	38
12	Wafer-Level Self-Organized Copolymer Templates for Nanolithography with Sub-50 nm Feature and Spatial Resolutions. <i>Advanced Functional Materials</i> , 2011, 21, 1102-1112.	7.8	35
13	Nanostructured sensors for biomedical applications – a current perspective. <i>Current Opinion in Biotechnology</i> , 2015, 34, 118-124.	3.3	33
14	Controlled Nanoscale Topographies for Osteogenic Differentiation of Mesenchymal Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8858-8866.	4.0	32
15	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
16	Investigating Sequential Vapor Infiltration Synthesis on Block-Copolymer-Templated Titania Nanoarrays. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7067-7076.	1.5	26
17	Engineering 3D Nanoplasmonic Assemblies for High Performance Spectroscopic Sensing. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27661-27666.	4.0	23
18	Quantitative Detection with Surface Enhanced Raman Scattering (SERS) Using Self-Assembled Gold Nanoparticle Cluster Arrays. <i>Australian Journal of Chemistry</i> , 2013, 66, 1034.	0.5	22

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19	Confinement-Induced Enhancement of Antigen-Antibody Interactions within Binary Nanopatterns to Achieve Higher Efficiency of On-Chip Immunosensors. <i>Advanced Materials</i> , 2008, 20, 2782-2788.	11.1	21
20	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
21	Amine-templated metal squarates. <i>Journal of Solid State Chemistry</i> , 2003, 174, 60-68.	1.4	18
22	Local modification of micellar layers using nanoscale dispensing. <i>Microelectronic Engineering</i> , 2006, 83, 1509-1512.	1.1	18
23	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
24	Tunable, high aspect ratio pillars on diverse substrates using copolymer micelle lithography: an interesting platform for applications. <i>Nanotechnology</i> , 2008, 19, 285301.	1.3	17
25	Hierarchically Built Hetero-superstructure Arrays with Structurally Controlled Material Compositions. <i>ACS Nano</i> , 2013, 7, 7513-7523.	7.3	17
26	Nanopatterned Self-Assembled Monolayers by Using Diblock Copolymer Micelles as Nanometer-Scale Adsorption and Etch Masks. <i>Advanced Materials</i> , 2008, 20, 1962-1965.	11.1	16
27	Combining Micelle Self-Assembly with Nanostencil Lithography to Create Periodic/Aperiodic Micro-Nanopatterns on Surfaces. <i>Advanced Materials</i> , 2008, 20, 3533-3538.	11.1	15
28	Engineering Electromagnetic Hot-Spots in Nanoparticle Cluster Arrays on Reflective Substrates for Highly Sensitive Detection of (Bio)molecular Analytes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32653-32661.	4.0	15
29	Hierarchically Built Gold Nanoparticle Supercluster Arrays as Charge Storage Centers for Enhancing the Performance of Flash Memory Devices. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 279-286.	4.0	13
30	Impact of Buffer Layer on Atomic Layer Deposited TiAlO Alloy Dielectric Quality for Epitaxial-GaAs/Ge Device Application. <i>IEEE Transactions on Electron Devices</i> , 2013, 60, 192-199.	1.6	12
31	Fabricating 2D arrays of chemical templates for in situ synthesis of inorganic nanostructures using self-assembly based nanolithography. <i>Journal of Materials Chemistry</i> , 2010, 20, 10211.	6.7	11
32	Analyte Co-localization at Electromagnetic Gap Hot-Spots for Highly Sensitive (Bio)molecular Detection by Plasmon Enhanced Spectroscopies. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9113-9121.	4.0	11
33	Hydrogen bonded complexes of cyanuric acid with pyridine and guanidinium carbonate. <i>Journal of Chemical Sciences</i> , 2000, 112, 607-614.	0.7	10
34	Advances in label-free optical biosensing: direct comparison of whispering gallery mode sensors with surface plasmon resonance. <i>Proceedings of SPIE</i> , 2008, , .	0.8	10
35	Combining Chemical Functionalization and FinFET Geometry for Field Effect Sensors as Accessible Technology to Optimize pH Sensing. <i>Chemosensors</i> , 2021, 9, 20.	1.8	10
36	Replacing the hydrogen in the intermolecular hydrogen bond of the cyanuric acid-bipyridyl adduct by Ag(I). <i>Journal of Chemical Sciences</i> , 2000, 112, 147-151.	0.7	8

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37	The systematic tunability of nanoparticle dimensions through the controlled loading of surface-deposited diblock copolymer micelles. <i>Nanotechnology</i> , 2008, 19, 175301.	1.3	5
38	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
39	Confined adsorption within nanopatterns as generic means to drive high adsorption efficiencies on affinity sensors. <i>Sensors and Actuators B: Chemical</i> , 2022, 366, 131945.	4.0	4
40	Fabrication of Reinforced Nanoporous Membranes. , 2007, , .		3
41	Hierarchically Structured Plasmonic Nanoparticle Assemblies with Dual-Length Scale Electromagnetic Hot Spots for Enhanced Sensitivity in the Detection of (Bio)Molecular Analytes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8647-8655.	1.5	3
42	Nanoplasmonic Arrays with High Spatial Resolutions, Quality, and Throughput for Quantitative Detection of Molecular Analytes. , 0, , .		2
43	Quantifying Analyte Surface Densities and Their Distribution with Respect to Electromagnetic Hot Spots in Plasmon-Enhanced Spectroscopic Biosensors. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9866-9874.	1.5	2
44	Novel detection scheme for optical biosensing using whispering gallery modes in clusters of dielectric particles. , 2008, , .		1
45	Rational route to fabrication of uni-dimensional surface gradients presenting stochastic and periodic arrangement of nanoparticles. <i>Applied Surface Science</i> , 2022, 581, 151763.	3.1	1
46	Dextran-based matrix functionalization to promote WJ-MSCs amplification: synthesis and characterization. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2023, 72, 285-295.	1.8	1
47	Enhancing surface plasmon detection of biomolecular interactions through use of nanostructured interfaces. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
48	High Density Metal Oxide (ZnO) Nanopatterned Platforms for Electronic Applications. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1498, 255-261.	0.1	0
49	Nanoscale platform for control, interrogation and optimization of molecular sensing interfaces, toward application to nanomedicine. , 2016, , .		0
50	Mesenchymal Stem Cell Differentiation Driven by Osteoinductive Bioactive Nanoscale Topographies. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11209.	1.3	0