## Sivashankar Krishnamoorthy

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Nanoscale patterning with block copolymers. Materials Today, 2006, 9, 40-47.	14.2	510
2	Nanoparticle Cluster Arrays for High-Performance SERS through Directed Self-Assembly on Flat Substrates and on Optical Fibers. ACS Nano, 2012, 6, 2056-2070.	14.6	241
3	Field Effects in Plasmonic Photocatalyst by Precise SiO <sub>2</sub> Thickness Control Using Atomic Layer Deposition. ACS Catalysis, 2011, 1, 300-308.	11.2	151
4	Tuning the Dimensions and Periodicities of Nanostructures Starting from the Same Polystyrene-block-poly(2-vinylpyridine) Diblock Copolymer. Advanced Functional Materials, 2006, 16, 1469-1475.	14.9	91
5	Block Copolymer Micelles as Switchable Templates for Nanofabrication. Langmuir, 2006, 22, 3450-3452.	3.5	69
6	From Fundamental toward Applied SERS: Shared Principles and Divergent Approaches. Advanced Optical Materials, 2018, 6, 1800292.	7.3	65
7	Inherently Reproducible Fabrication of Plasmonic Nanoparticle Arrays for SERS by Combining Nanoimprint and Copolymer Lithography. ACS Applied Materials & Interfaces, 2011, 3, 1033-1040.	8.0	59
8	Novel supramolecular organizations in melamine complexes with 4,4′-bipyridyl and silver nitrate. Journal of Molecular Structure, 2001, 559, 41-48.	3.6	48
9	Optical Sensors Based on Whispering Gallery Modes in Fluorescent Microbeads: Response to Specific Interactions. Sensors, 2010, 10, 6257-6274.	3.8	46
10	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. Analytical Chemistry, 2020, 92, 15745-15756.	6.5	46
11	Enhancing charge-storage capacity of non-volatile memory devices using template-directed assembly of gold nanoparticles. Nanoscale, 2012, 4, 2296.	5.6	38
12	Waferâ€Level Selfâ€Organized Copolymer Templates for Nanolithography with Subâ€50 nm Feature and Spatial Resolutions. Advanced Functional Materials, 2011, 21, 1102-1112.	14.9	35
13	Nanostructured sensors for biomedical applications — a current perspective. Current Opinion in Biotechnology, 2015, 34, 118-124.	6.6	33
14	Controlled Nanoscale Topographies for Osteogenic Differentiation of Mesenchymal Stem Cells. ACS Applied Materials & Interfaces, 2019, 11, 8858-8866.	8.0	32
15	Robust, High-Density Zinc Oxide Nanoarrays by Nanoimprint Lithography-Assisted Area-Selective Atomic Layer Deposition. Journal of Physical Chemistry C, 2012, 116, 23729-23734.	3.1	26
16	Investigating Sequential Vapor Infiltration Synthesis on Block-Copolymer-Templated Titania Nanoarrays. Journal of Physical Chemistry C, 2016, 120, 7067-7076.	3.1	26
17	Engineering 3D Nanoplasmonic Assemblies for High Performance Spectroscopic Sensing. ACS Applied Materials & amp; Interfaces, 2015, 7, 27661-27666.	8.0	23
18	Quantitative Detection with Surface Enhanced Raman Scattering (SERS) Using Self-Assembled Gold Nanoparticle Cluster Arrays. Australian Journal of Chemistry, 2013, 66, 1034.	0.9	22

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19	Confinementâ€Induced Enhancement of Antigen–Antibody Interactions within Binary Nanopatterns to Achieve Higher Efficiency of Onâ€Chip Immunosensors. Advanced Materials, 2008, 20, 2782-2788.	21.0	21
20	In Situ Synthesis of High Density sub-50 nm ZnO Nanopatterned Arrays Using Diblock Copolymer Templates. ACS Applied Materials & Interfaces, 2013, 5, 5727-5732.	8.0	19
21	Amine-templated metal squarates. Journal of Solid State Chemistry, 2003, 174, 60-68.	2.9	18
22	Local modification of micellar layers using nanoscale dispensing. Microelectronic Engineering, 2006, 83, 1509-1512.	2.4	18
23	Macroscopic high density nanodisc arrays of zinc oxide fabricated by block copolymer self-assembly assisted nanoimprint lithography. Journal of Materials Chemistry, 2012, 22, 21871.	6.7	18
24	Tunable, high aspect ratio pillars on diverse substrates using copolymer micelle lithography: an interesting platform for applications. Nanotechnology, 2008, 19, 285301.	2.6	17
25	Hierarchically Built Hetero-superstructure Arrays with Structurally Controlled Material Compositions. ACS Nano, 2013, 7, 7513-7523.	14.6	17
26	Nanopatterned Selfâ€Assembled Monolayers by Using Diblock Copolymer Micelles as Nanometerâ€6cale Adsorption and Etch Masks. Advanced Materials, 2008, 20, 1962-1965.	21.0	16
27	Combining Micelle Selfâ€Assembly with Nanostencil Lithography to Create Periodic/Aperiodic Microâ€/Nanopatterns on Surfaces. Advanced Materials, 2008, 20, 3533-3538.	21.0	15
28	Engineering Electromagnetic Hot-Spots in Nanoparticle Cluster Arrays on Reflective Substrates for Highly Sensitive Detection of (Bio)molecular Analytes. ACS Applied Materials & Interfaces, 2021, 13, 32653-32661.	8.0	15
29	Hierarchically Built Gold Nanoparticle Supercluster Arrays as Charge Storage Centers for Enhancing the Performance of Flash Memory Devices. ACS Applied Materials & Interfaces, 2015, 7, 279-286.	8.0	13
30	Impact of Buffer Layer on Atomic Layer Deposited TiAlO Alloy Dielectric Quality for Epitaxial-GaAs/Ge Device Application. IEEE Transactions on Electron Devices, 2013, 60, 192-199.	3.0	12
31	Fabricating 2D arrays of chemical templates for in situ synthesis of inorganic nanostructures using self-assembly based nanolithography. Journal of Materials Chemistry, 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. ACS Applied Materials & Interfaces, 2021, 13, 9113-9121.	8.0	11
33	Hydrogen bonded complexes of cyanuric acid with pyridine and guanidinium carbonate. Journal of Chemical Sciences, 2000, 112, 607-614.	1.5	10
34	Advances in label-free optical biosensing: direct comparison of whispering gallery mode sensors with surface plasmon resonance. Proceedings of SPIE, 2008, , .	0.8	10
35	Combining Chemical Functionalization and FinFET Geometry for Field Effect Sensors as Accessible Technology to Optimize pH Sensing. Chemosensors, 2021, 9, 20.	3.6	10
36	Replacing the hydrogen in the intermolecular hydrogen bond of the cyanuric acid-bipyridyl adduct by Ag(I). Journal of Chemical Sciences, 2000, 112, 147-151.	1.5	8

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37	The systematic tunability of nanoparticle dimensions through the controlled loading of surface-deposited diblock copolymer micelles. Nanotechnology, 2008, 19, 175301.	2.6	5
38	Multi-layered metal nanocrystals in a sol-gel spin-on-glass matrix for flash memory applications. Materials Chemistry and Physics, 2017, 186, 36-43.	4.0	4
39	Confined adsorption within nanopatterns as generic means to drive high adsorption efficiencies on affinity sensors. Sensors and Actuators B: Chemical, 2022, 366, 131945.	7.8	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. Journal of Physical Chemistry C, 2021, 125, 8647-8655.	3.1	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. Journal of Physical Chemistry C, 2021, 125, 9866-9874.	3.1	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. Applied Surface Science, 2022, 581, 151763.	6.1	1
46	Dextran-based matrix functionalization to promote WJ-MSCs amplification: synthesis and characterization. International Journal of Polymeric Materials and Polymeric Biomaterials, 2023, 72, 285-295.	3.4	1
47	Enhancing surface plasmon detection of biomolecular interactions through use of nanostructured interfaces. Proceedings of SPIE, 2008, , .	0.8	0
48	High Density Metal Oxide (ZnO) Nanopatterned Platforms for Electronic Applications. Materials Research Society Symposia Proceedings, 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. Applied Sciences (Switzerland), 2021, 11, 11209.	2.5	0