

# Sivashankar Krishnamoorthy

## List of Publications by Year in descending order

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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	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
2	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
3	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
4	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
5	Analyte Co-localization at Electromagnetic Gap Hot-Spots for Highly Sensitive (Bio)molecular Detection by Plasmon Enhanced Spectroscopies. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 9113-9121.	4.0	11
6	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
7	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
8	Engineering Electromagnetic Hot-Spots in Nanoparticle Cluster Arrays on Reflective Substrates for Highly Sensitive Detection of (Bio)molecular Analytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 32653-32661.	4.0	15
9	Mesenchymal Stem Cell Differentiation Driven by Osteoinductive Bioactive Nanoscale Topographies. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11209.	1.3	0
10	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020, 92, 15745-15756.	3.2	46
11	Controlled Nanoscale Topographies for Osteogenic Differentiation of Mesenchymal Stem Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8858-8866.	4.0	32
12	From Fundamental toward Applied SERS: Shared Principles and Divergent Approaches. <i>Advanced Optical Materials</i> , 2018, 6, 1800292.	3.6	65
13	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
14	Nanoscale platform for control, interrogation and optimization of molecular sensing interfaces, toward application to nanomedicine. , 2016, , .		0
15	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
16	Hierarchically Built Gold Nanoparticle Supercluster Arrays as Charge Storage Centers for Enhancing the Performance of Flash Memory Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 279-286.	4.0	13
17	Nanostructured sensors for biomedical applications â€” a current perspective. <i>Current Opinion in Biotechnology</i> , 2015, 34, 118-124.	3.3	33
18	Engineering 3D Nanoplasmonic Assemblies for High Performance Spectroscopic Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 27661-27666.	4.0	23

#	ARTICLE	IF	CITATIONS
19	Quantitative Detection with Surface Enhanced Raman Scattering (SERS) Using Self-Assembled Gold Nanoparticle Cluster Arrays. Australian Journal of Chemistry, 2013, 66, 1034.	0.5	22
20	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.	1.6	12
21	In Situ Synthesis of High Density sub-50 nm ZnO Nanopatterned Arrays Using Diblock Copolymer Templates. ACS Applied Materials & Interfaces, 2013, 5, 5727-5732.	4.0	19
22	Hierarchically Built Hetero-superstructure Arrays with Structurally Controlled Material Compositions. ACS Nano, 2013, 7, 7513-7523.	7.3	17
23	High Density Metal Oxide (ZnO) Nanopatterned Platforms for Electronic Applications. Materials Research Society Symposia Proceedings, 2013, 1498, 255-261.	0.1	0
24	Enhancing charge-storage capacity of non-volatile memory devices using template-directed assembly of gold nanoparticles. Nanoscale, 2012, 4, 2296.	2.8	38
25	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
26	Robust, High-Density Zinc Oxide Nanoarrays by Nanoimprint Lithography-Assisted Area-Selective Atomic Layer Deposition. Journal of Physical Chemistry C, 2012, 116, 23729-23734.	1.5	26
27	Nanoparticle Cluster Arrays for High-Performance SERS through Directed Self-Assembly on Flat Substrates and on Optical Fibers. ACS Nano, 2012, 6, 2056-2070.	7.3	241
28	Inherently Reproducible Fabrication of Plasmonic Nanoparticle Arrays for SERS by Combining Nanoimprint and Copolymer Lithography. ACS Applied Materials & Interfaces, 2011, 3, 1033-1040.	4.0	59
29	Field Effects in Plasmonic Photocatalyst by Precise SiO <sub>2</sub> Thickness Control Using Atomic Layer Deposition. ACS Catalysis, 2011, 1, 300-308.	5.5	151
30	Wafer-Level Self-Organized Copolymer Templates for Nanolithography with Sub-50 nm Feature and Spatial Resolutions. Advanced Functional Materials, 2011, 21, 1102-1112.	7.8	35
31	Optical Sensors Based on Whispering Gallery Modes in Fluorescent Microbeads: Response to Specific Interactions. Sensors, 2010, 10, 6257-6274.	2.1	46
32	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
33	Nanopatterned Self-Assembled Monolayers by Using Diblock Copolymer Micelles as Nanometer-Scale Adsorption and Etch Masks. Advanced Materials, 2008, 20, 1962-1965.	11.1	16
34	Confinement-Induced Enhancement of Antigen-Antibody Interactions within Binary Nanopatterns to Achieve Higher Efficiency of On-Chip Immunosensors. Advanced Materials, 2008, 20, 2782-2788.	11.1	21
35	Combining Micelle Self-Assembly with Nanostencil Lithography to Create Periodic/Aperiodic Micro-Nanopatterns on Surfaces. Advanced Materials, 2008, 20, 3533-3538.	11.1	15
36	Novel detection scheme for optical biosensing using whispering gallery modes in clusters of dielectric particles. , 2008, , .		1

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37	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
38	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
39	Enhancing surface plasmon detection of biomolecular interactions through use of nanostructured interfaces. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
40	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
41	Fabrication of Reinforced Nanoporous Membranes. , 2007, , .		3
42	Block Copolymer Micelles as Switchable Templates for Nanofabrication. <i>Langmuir</i> , 2006, 22, 3450-3452.	1.6	69
43	Nanoscale patterning with block copolymers. <i>Materials Today</i> , 2006, 9, 40-47.	8.3	510
44	Local modification of micellar layers using nanoscale dispensing. <i>Microelectronic Engineering</i> , 2006, 83, 1509-1512.	1.1	18
45	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
46	Amine-templated metal squarates. <i>Journal of Solid State Chemistry</i> , 2003, 174, 60-68.	1.4	18
47	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
48	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
49	Hydrogen bonded complexes of cyanuric acid with pyridine and guanidinium carbonate. <i>Journal of Chemical Sciences</i> , 2000, 112, 607-614.	0.7	10
50	Nanoplasmonic Arrays with High Spatial Resolutions, Quality, and Throughput for Quantitative Detection of Molecular Analytes. , 0, , .		2