

# Vignesh Suresh

## List of Publications by Year in descending order

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22  
papers

503  
citations

858243

12  
h-index

799663

21  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1052  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transparent heat regulating (THR) materials and coatings for energy saving window applications: Impact of materials design, micro-structural, and interface quality on the THR performance. <i>Progress in Materials Science</i> , 2018, 95, 42-131.	16.0	128
2	Fabrication of Large-Area Flexible SERS Substrates by Nanoimprint Lithography. <i>ACS Applied Nano Materials</i> , 2018, 1, 886-893.	2.4	82
3	Impact of molybdenum out diffusion and interface quality on the performance of sputter grown CZTS based solar cells. <i>Scientific Reports</i> , 2017, 7, 1350.	1.6	60
4	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
5	Flexible, transparent and robust SERS tapes through a two-step block copolymer self-assembly process. <i>RSC Advances</i> , 2015, 5, 61671-61677.	1.7	24
6	Non-invasive paper-based microfluidic device for ultra-low detection of urea through enzyme catalysis. <i>Royal Society Open Science</i> , 2018, 5, 171980.	1.1	24
7	Shaping and Tuning Lighting Conditions in Controlled Environment Agriculture: A Review. <i>ACS Agricultural Science and Technology</i> , 2022, 2, 3-16.	1.0	23
8	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
9	In Situ Synthesis of High Density sub-50 nm ZnO Nanopatterned Arrays Using Diblock Copolymer Templates. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 5727-5732.	4.0	19
10	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
11	Hierarchically Built Hetero-superstructure Arrays with Structurally Controlled Material Compositions. <i>ACS Nano</i> , 2013, 7, 7513-7523.	7.3	17
12	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
13	All earth abundant materials for low cost solar-driven hydrogen production. <i>Materials Letters</i> , 2016, 183, 183-186.	1.3	9
14	Ultrathin Film Broadband Terahertz Antireflection Coating Based on Impedance Matching Method. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 1-8.	1.9	8
15	Copper Oxide Nano-particles Film On Glass By Using Sputter And Chemical Bath Deposition Technique. <i>Advanced Materials Letters</i> , 2016, 7, 600-603.	0.3	7
16	In situ application of polyelectrolytes in zinc oxide nanorod synthesis: Understanding the effects on the structural and optical characteristics. <i>Journal of Colloid and Interface Science</i> , 2013, 394, 13-19.	5.0	5
17	Gold nanoparticle density-multiplication by tuning block copolymer self-assembly processes toward increased charge storage. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10121-10128.	2.7	5
18	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

#	ARTICLE	IF	CITATIONS
19	Gold nanoparticles adsorption study onto periodic block copolymer using quartz crystal microbalance. <i>Materials Letters</i> , 2015, 148, 118-121.	1.3	3
20	Defect Analysis And Performance Evaluation Of P-Type Epitaxial GaAs Layer On Ge Substrate For GaAs/Ge Based Advanced Device. <i>Advanced Materials Letters</i> , 2016, 7, 517-524.	0.3	3
21	Block copolymer self-assembly assisted fabrication of laterally organized- and stacked- nanoarrays. <i>Nanotechnology</i> , 2022, 33, 135303.	1.3	3
22	High Density Metal Oxide (ZnO) Nanopatterned Platforms for Electronic Applications. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1498, 255-261.	0.1	0