

# Satheesh Krishnamurthy

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

6,423  
citations

25  
h-index

80  
g-index

84  
ext. papers

7,167  
ext. citations

6  
avg, IF

5.21  
L-index

#	Paper	IF	Citations
80	Bioengineered solar harvesting systems for next generation applications. <i>Solar Energy</i> , <b>2022</b> , 231, 857-878	7.1	2
79	Sugar beet pulp: Resurgence and trailblazing journey towards a circular bioeconomy. <i>Fuel</i> , <b>2022</b> , 312, 122953	7.1	6
78	Cellulosic biomass-based sustainable hydrogels for wastewater remediation: Chemistry and prospective. <i>Fuel</i> , <b>2022</b> , 309, 122114	7.1	27
77	Ultra-Sensitive Immuno-Sensing Platform Based on Gold-Coated Interdigitated Electrodes for the Detection of Parathion. <i>Surfaces</i> , <b>2022</b> , 5, 165-175	2.9	
76	Selected 'Starter kit' energy system modelling data for selected countries in Africa, East Asia, and South America (#CCG, 2021).. <i>Data in Brief</i> , <b>2022</b> , 42, 108021	1.2	0
75	Demonstration of a plant-microbe integrated system for treatment of real-time textile industry wastewater.. <i>Environmental Pollution</i> , <b>2022</b> , 119009	9.3	0
74	Enhanced photoelectrochemical response of 1D TiO <sub>2</sub> by atmospheric pressure plasma surface modification. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 12715-12724	6.7	1
73	Material dependent and temperature driven adsorption switching (p- to n- type) using CNT/ZnO composite-based chemiresistive methanol gas sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 336, 129729	8.5	19
72	Development of Field Deployable Sensor for Detection of Pesticide From Food Chain. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 4129-4134	4	8
71	CeO <sub>2</sub> /Ce <sub>2</sub> O <sub>3</sub> quantum dot decorated reduced graphene oxide nanohybrid as electrode for supercapacitor. <i>Applied Surface Science</i> , <b>2021</b> , 536, 147960	6.7	24
70	Cu <sub>2</sub> O/CuO heterojunction catalysts through atmospheric pressure plasma induced defect passivation. <i>Applied Surface Science</i> , <b>2021</b> , 541, 148571	6.7	16
69	Influence of La <sup>3+</sup> induced defects on MnO <sub>2</sub> /Carbon nanotube hybrid electrodes for supercapacitors. <i>Materials Advances</i> , <b>2021</b> , 2, 366-375	3.3	6
68	Tin oxide for optoelectronic, photovoltaic and energy storage devices: a review. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 16621-16684	13	21
67	Removal and degradation of mixed dye pollutants by integrated adsorption-photocatalysis technique using 2-D MoS <sub>2</sub> /TiO <sub>2</sub> nanocomposite. <i>Chemosphere</i> , <b>2021</b> , 279, 130467	8.4	27
66	Atmospheric pressure plasma engineered superhydrophilic CuO surfaces with enhanced catalytic activities. <i>Applied Surface Science</i> , <b>2021</b> , 564, 150413	6.7	3
65	Microwave- and Formaldehyde-Assisted Synthesis of Ag-AgPO with Enhanced Photocatalytic Activity for the Degradation of Rhodamine B Dye and Crude Oil Fractions. <i>ACS Omega</i> , <b>2020</b> , 5, 13641-13655	3.9	7
64	Engineering work function of graphene oxide from p to n type using a low power atmospheric pressure plasma jet. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 7685-7698	3.6	16

63	BiVO <sub>4</sub> /TiO <sub>2</sub> core-shell heterostructure: wide range optical absorption and enhanced photoelectrochemical and photocatalytic performance. <i>Materials Today Chemistry</i> , <b>2020</b> , 17, 100283	6.2	17
62	Strength-ductility trade-off via SiC nanoparticle dispersion in A356 aluminium matrix. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 771, 138639	5.3	12
61	Fast response and low temperature sensing of acetone and ethanol using Al-doped ZnO microrods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 118, 113868	3	14
60	Solution-Processed Pure Sulfide Cu <sub>2</sub> (Zn <sub>0.6</sub> Cd <sub>0.4</sub> )SnS <sub>4</sub> Solar Cells with Efficiency 10.8% Using Ultrathin CuO Intermediate Layer. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000293	7.1	13
59	Microfluidic Affinity Sensor Based on a Molecularly Imprinted Polymer for Ultrasensitive Detection of Chlorpyrifos. <i>ACS Omega</i> , <b>2020</b> , 5, 31765-31773	3.9	8
58	Efficient hole transport material formed by atmospheric pressure plasma functionalization of Spiro-OMeTAD. <i>Materials Today Chemistry</i> , <b>2020</b> , 17, 100321	6.2	4
57	Solution-Processed Pure Sulfide Cu <sub>2</sub> (Zn <sub>0.6</sub> Cd <sub>0.4</sub> )SnS <sub>4</sub> Solar Cells with Efficiency 10.8% Using Ultrathin CuO Intermediate Layer. <i>Solar Rrl</i> , <b>2020</b> , 4, 2070096	7.1	
56	Continuous Hydrothermal Synthesis of Metal Germanates (M <sub>2</sub> GeO <sub>4</sub> ; M = Co, Mn, Zn) for High-Capacity Negative Electrodes in Li-Ion Batteries. <i>Energy Technology</i> , <b>2020</b> , 8, 1900692	3.5	7
55	Electro-deposited nano-webbed structures based on polyaniline/multi walled carbon nanotubes for enzymatic detection of organophosphates. <i>Food Chemistry</i> , <b>2020</b> , 323, 126784	8.5	25
54	Plasma jet based in situ reduction of copper oxide in direct write printing. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2019</b> , 37, 031203	1.3	8
53	Electrochemical micro analytical device interfaced with portable potentiostat for rapid detection of chlorpyrifos using acetylcholinesterase conjugated metal organic framework using Internet of things. <i>Scientific Reports</i> , <b>2019</b> , 9, 19862	4.9	37
52	Effects of Precursor Concentration in Solvent and Nanomaterials Room Temperature Aging on the Growth Morphology and Surface Characteristics of Ni <sub>3</sub> NiO Nanocatalysts Produced by Dendrites Combustion during SCS. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4925	2.6	5
51	Novel Hydrothermal Synthesis of CoS <sub>2</sub> /MWCNT Nanohybrid Electrode for Supercapacitor: A Systematic Investigation on the Influence of MWCNT. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 18237-18246	3.8	35
50	Synthesis of MoS <sub>2</sub> -TiO <sub>2</sub> nanocomposite for enhanced photocatalytic and photoelectrochemical performance under visible light irradiation. <i>Vacuum</i> , <b>2018</b> , 155, 675-681	3.7	27
49	Plasma Jet Printing and in Situ Reduction of Highly Acidic Graphene Oxide. <i>ACS Nano</i> , <b>2018</b> , 12, 5473-5486	6.7	25
48	Nanoparticle functionalized laser patterned substrate: an innovative route towards low cost biomimetic platforms. <i>RSC Advances</i> , <b>2017</b> , 7, 8060-8069	3.7	6
47	Tuning the properties of a black TiO <sub>2</sub> -Ag visible light photocatalyst produced by a rapid one-pot chemical reduction. <i>Materials Today Chemistry</i> , <b>2017</b> , 4, 142-149	6.2	31
46	Robust water repellent ZnO nanorod array by Swift Heavy Ion Irradiation: Effect of Electronic Excitation Induced Local Chemical State Modification. <i>Scientific Reports</i> , <b>2017</b> , 7, 3251	4.9	17

45	Efficacy of atmospheric pressure dielectric barrier discharge for inactivating airborne pathogens. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2017</b> , 35, 041101	2.9	6
44	Mediator-free interaction of glucose oxidase, as model enzyme for immobilization, with Al-doped and undoped ZnO thin films laser-deposited on polycarbonate supports. <i>Enzyme and Microbial Technology</i> , <b>2017</b> , 96, 67-74	3.8	14
43	In-situ plasma hydrogenated TiO <sub>2</sub> thin films for enhanced photoelectrochemical properties. <i>Materials Research Bulletin</i> , <b>2016</b> , 76, 284-291	5.1	27
42	Hydrogen treated anatase TiO <sub>2</sub> : a new experimental approach and further insights from theory. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2670-2681	13	103
41	Synthesis of Diagnostic Silicon Nanoparticles for Targeted Delivery of Thiourea to Epidermal Growth Factor Receptor-Expressing Cancer Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8908-8915	9.5	20
40	Synthesis And Characterisation Of Polyaniline (PANI) Membranes For Fuel Cell. <i>Advanced Materials Letters</i> , <b>2016</b> , 7, 719-722	2.4	4
39	Plasma engineering of graphene. <i>Applied Physics Reviews</i> , <b>2016</b> , 3, 021301	17.3	93
38	A low-cost, sulfurization free approach to control optical and electronic properties of Cu <sub>2</sub> ZnSnS <sub>4</sub> via precursor variation. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 820-830	6.4	19
37	Effect of annealing on the magnetic properties of ball milled NiO powders. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 384, 296-301	2.8	16
36	Improvement in the structural, optical, electronic and photoelectrochemical properties of hydrogen treated bismuth vanadate thin films. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 4311-4319	6.7	44
35	Thermally controlled growth of carbon onions within porous graphitic carbon-detonation nanodiamond monolithic composites. <i>RSC Advances</i> , <b>2015</b> , 5, 22906-22915	3.7	10
34	Finite Size Effects in Magnetic and Optical Properties of Antiferromagnetic NiO Nanoparticles. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4	2	29
33	Liquid Phase Pulsed Laser Ablation: A route to fabricate different carbon nanostructures. <i>Applied Surface Science</i> , <b>2014</b> , 302, 141-144	6.7	36
32	Soft x-ray spectroscopic investigation of Zn doped CuCl produced by pulsed dc magnetron sputtering. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 285501	1.8	2
31	In situ formation of onion-like carbon from the evaporation of ultra-dispersed nanodiamonds. <i>Carbon</i> , <b>2013</b> , 52, 145-149	10.4	15
30	Hydrogen absorption in thin ZnO films prepared by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 580, S40-S43	5.7	9
29	Morphology-directed synthesis of ZnO nanostructures and their antibacterial activity. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 105, 24-30	6	77
28	Defect studies of ZnO films prepared by pulsed laser deposition on various substrates. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 443, 012018	0.3	1

27	Electron transfer mechanism in <i>Shewanella loihica</i> PV-4 biofilms formed at graphite electrode. <i>Bioelectrochemistry</i> , <b>2012</b> , 87, 28-32	5.6	69
26	Structural characterization of ZnO thin films grown on various substrates by pulsed laser deposition. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 225101	3	24
25	Characteristics of silicon nanocrystals for photovoltaic applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2011</b> , 208, 604-607	1.6	11
24	Resonant soft X-ray emission and X-ray absorption studies on Ga <sub>1-x</sub> Mn <sub>x</sub> N grown by pulsed laser deposition. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 1608-1610		1
23	Zinc oxide and indium tin oxide thin films for the growth and characterization of <i>Shewanella loihica</i> PV-4 electroactive biofilms. <i>Virulence</i> , <b>2011</b> , 2, 479-82	4.7	1
22	Transparent ultrathin conducting carbon films. <i>Applied Surface Science</i> , <b>2010</b> , 256, 6186-6190	6.7	27
21	Growth and Characterisation of Al <sub>1-x</sub> Cr <sub>x</sub> N Thin Films by RF Plasma Assisted Pulsed Laser Deposition. <i>E-Journal of Surface Science and Nanotechnology</i> , <b>2009</b> , 7, 497-502	0.7	5
20	Core and valence exciton formation in x-ray absorption, x-ray emission and x-ray excited optical luminescence from passivated Si nanocrystals at the Si L(2,3) edge. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 095005	1.8	19
19	Gold surface with gold nitride surface enhanced Raman scattering active substrate. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 054302	2.5	12
18	High-yield production of graphene by liquid-phase exfoliation of graphite. <i>Nature Nanotechnology</i> , <b>2008</b> , 3, 563-8	28.7	4715
17	Electronic and optical properties of magnesium phthalocyanine (MgPc) solid films studied by soft X-ray excited optical luminescence and X-ray absorption spectroscopies. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 13008-12	16.4	10
16	Growth of carbon nanotubes on Si substrate using Fe catalyst produced by pulsed laser deposition. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 5748-52	1.3	
15	Optical characterization of oxide encapsulated silicon nanowires of various morphologies. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 4202-6	1.3	8
14	Potassium intercalation of carbon onions opened by carbon dioxide treatment. <i>Carbon</i> , <b>2008</b> , 46, 1133-1140	1.4	10
13	Observation of van der Waals Driven Self-Assembly of MoSi Nanowires into a Low-Symmetry Structure Using Aberration-Corrected Electron Microscopy. <i>Advanced Materials</i> , <b>2007</b> , 19, 543-547	24	41
12	Pulsed laser deposition of nanoparticle films of Au. <i>Applied Surface Science</i> , <b>2007</b> , 254, 1303-1306	6.7	39
11	Evaporation and deposition of alkyl-capped silicon nanocrystals in ultrahigh vacuum. <i>Nature Nanotechnology</i> , <b>2007</b> , 2, 486-9	28.7	69
10	Soft-x-ray spectroscopic investigation of ferromagnetic Co-doped ZnO. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08M111	2.5	73

9	X-ray induced decomposition of gold nitride. <i>Chemical Physics Letters</i> , <b>2006</b> , 430, 89-92	2.5	27
8	Photoemission study of onionlike carbons produced by annealing nanodiamonds. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	127
7	Reactions and luminescence in passivated Si nanocrystallites induced by vacuum ultraviolet and soft-x-ray photons. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 044316	2.5	33
6	Gold film with gold nitride—a conductor but harder than gold. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 221912	3.4	34
5	Nitrogen ion irradiation of Au(110): Photoemission spectroscopy and possible crystal structures of gold nitride. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	38
4	Photoemission spectroscopy of clean and potassium-intercalated carbon onions. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	18
3	Thermally induced decomposition of single-wall carbon nanotubes adsorbed on H/Si(111). <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4847-4849	3.4	6
2	Ultrafast epitaxial growth of CuO nanowires using atmospheric pressure plasma with enhanced electrocatalytic and photocatalytic activities. <i>Nano Select</i> ,	3.1	1
1	Surface Functionalized MXenes for Wastewater Treatment—a Comprehensive Review. <i>Global Challenges</i> , 2100120	4.3	1