

Sesha Vempati

List of Publications by Year in descending order

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42
papers

1,764
citations

394421

19
h-index

289244

40
g-index

43
all docs

43
docs citations

43
times ranked

3088
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast generation and decay of a surface metal. <i>Nature Communications</i> , 2021, 12, 978.	12.8	9
2	Electrical Conductivity for Quasiparticle Graphene-Like System. <i>Springer Proceedings in Physics</i> , 2021, , 187-193.	0.2	0
3	Electrospinning Combined with Atomic Layer Deposition to Generate Applied Nanomaterials: A Review. <i>ACS Applied Nano Materials</i> , 2020, 3, 6186-6209.	5.0	23
4	Distinguishing strain, charge and molecular orbital induced effects on the electronic structure: graphene/ammonia system. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 455501.	1.8	1
5	Photoexcited organic molecules en route to highly efficient autoionization. <i>Journal of Chemical Physics</i> , 2020, 152, 074715.	3.0	3
6	Graphene oxide-doped PEDOT:PSS as hole transport layer in inverted bulk heterojunction solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 3576-3584.	2.2	11
7	Revealing the competing contributions of charge carriers, excitons, and defects to the non-equilibrium optical properties of ZnO. <i>Structural Dynamics</i> , 2019, 6, 034501.	2.3	26
8	Negative photoresponse in ZnOâ€“PEDOT:PSS nanocomposites and photogating effects. <i>Nanoscale Advances</i> , 2019, 1, 2435-2443.	4.6	12
9	Solvothermal synthesis of graphene oxide and its composites with poly(μ -caprolactone). <i>Nanoscale</i> , 2019, 11, 18672-18682.	5.6	11
10	Uncovering the (un-)occupied electronic structure of a buried hybrid interface. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 094001.	1.8	5
11	Associative behaviour and effect of functional groups on the fluorescence of graphene oxide. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7559-7569.	2.8	11
12	Temporary and permanent changes to the defect equilibrium due to ultraviolet exposure: Surface and bulk effects on ZnO nanostructures. <i>Applied Surface Science</i> , 2018, 457, 676-683.	6.1	5
13	Tuning the degree of oxidation and electron delocalization of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) with solid-electrolyte. <i>Applied Surface Science</i> , 2017, 419, 770-777.	6.1	9
14	Optoelectronic Properties of Layered Titanate Nanostructure and Polyaniline Impregnated Devices. <i>ChemistrySelect</i> , 2016, 1, 5885-5891.	1.5	5
15	Controlling the photoconductivity: Graphene oxide and polyaniline self assembled intercalation. <i>Applied Physics Letters</i> , 2015, 106, 051106.	3.3	5
16	Electrical conduction and rheological behaviour of composites of poly(μ -caprolactone) and MWCNTs. <i>Polymer</i> , 2015, 58, 209-221.	3.8	62
17	Excitation dependent recombination studies on SnO ₂ /TiO ₂ electrospun nanofibers. <i>RSC Advances</i> , 2015, 5, 66367-66375.	3.6	8
18	Transformation of polymer-ZnO coreâ€“shell nanofibers into ZnO hollow nanofibers: Intrinsic defect reorganization in ZnO and its influence on the photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 646-653.	20.2	56

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19	Non-universal behavior of leaky surface waves in a one dimensional asymmetric plasmonic grating. Journal of Applied Physics, 2015, 118, .	2.5	25
20	Amorphous to Tetragonal Zirconia Nanostructures and Evolution of Valence and Core Regions. Journal of Physical Chemistry C, 2015, 119, 23268-23273.	3.1	19
21	Fabrication of flexible polymerâ€“GaN coreâ€“shell nanofibers by the combination of electrospinning and hollow cathode plasma-assisted atomic layer deposition. Journal of Materials Chemistry C, 2015, 3, 5199-5206.	5.5	26
22	Defect related emission versus intersystem crossing: blue emitting ZnO/graphene oxide quantum dots. Nanoscale, 2015, 7, 16110-16118.	5.6	29
23	Surface ionic states and structure of titanate nanotubes. RSC Advances, 2015, 5, 82977-82982.	3.6	8
24	Review of one-dimensional and two-dimensional nanostructured materials for hydrogen generation. Physical Chemistry Chemical Physics, 2015, 17, 2960-2986.	2.8	151
25	Water-soluble non-polymeric electrospun cyclodextrin nanofiber template for the synthesis of metal oxide tubes by atomic layer deposition. RSC Advances, 2014, 4, 61698-61705.	3.6	45
26	ZnO Nanostructures on Electrospun Nanofibers by Atomic Layer Deposition/Hydrothermal Growth and Their Photocatalytic Activity. Materials Research Society Symposia Proceedings, 2014, 1675, 9-14.	0.1	1
27	Selective isolation of the electron or hole in photocatalysis: ZnOâ€“TiO ₂ and TiO ₂ â€“ZnO coreâ€“shell structured heterojunction nanofibers via electrospinning and atomic layer deposition. Nanoscale, 2014, 6, 5735.	5.6	139
28	Effective nanostructured morphologies for efficient hybrid solar cells. Solar Energy, 2014, 106, 1-22.	6.1	45
29	Electronâ€“phonon interaction in bulk layered graphene and its oxide in the presence of alcohols in a device: equilibrium molecular doping. Journal of Materials Chemistry C, 2014, 2, 8585-8592.	5.5	5
30	Fluorescence from graphene oxide and the influence of ionic, i€“i interactions and heterointerfaces: electron or energy transfer dynamics. Physical Chemistry Chemical Physics, 2014, 16, 21183-21203.	2.8	38
31	Role of zinc interstitials and oxygen vacancies of ZnO in photocatalysis: a bottom-up approach to control defect density. Nanoscale, 2014, 6, 10224-10234.	5.6	320
32	Reduced recombination and enhanced UV-assisted photocatalysis by highly anisotropic titanates from electrospun TiO ₂ â€“SiO ₂ nanostructures. RSC Advances, 2014, 4, 27979.	3.6	18
33	Enhanced photocatalytic activity of homoassembled ZnO nanostructures on electrospun polymeric nanofibers: A combination of atomic layer deposition and hydrothermal growth. Applied Catalysis B: Environmental, 2014, 156-157, 173-183.	20.2	89
34	Sensitive Surface States and their Passivation Mechanism in CdS Quantum Dots. Journal of Physical Chemistry C, 2013, 117, 21609-21618.	3.1	43
35	Conducting Polyaniline-Electrical Charge Transportation. Materials Sciences and Applications, 2013, 04, 1-10.	0.4	33
36	Unusual photoresponse of indium doped ZnO/organic thin film heterojunction. Applied Physics Letters, 2012, 100, .	3.3	62

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37	Solution-based synthesis of cobalt-doped ZnO thin films. <i>Thin Solid Films</i> , 2012, 524, 137-143.	1.8	45
38	Cobalt-doped ZnO nanowires on quartz: Synthesis by simple chemical method and characterization. <i>Journal of Crystal Growth</i> , 2012, 343, 7-12.	1.5	30
39	One-step synthesis of ZnO nanosheets: a blue-white fluorophore. <i>Nanoscale Research Letters</i> , 2012, 7, 470.	5.7	317
40	Flexible polymer microtubes and microchannels via electrospinning. <i>Materials Letters</i> , 2011, 65, 3493-3495.	2.6	7
41	Non-universal behavior well above the percolation threshold and thermal properties of core-shell-magnetite-polymer fibers. <i>Journal of Applied Physics</i> , 2011, 110, 113718.	2.5	3
42	Ultrashort and metastable doping of the ZnO surface by photoexcited defects. <i>Faraday Discussions</i> , 0, 237, 58-79.	3.2	4