

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	Role of zinc interstitials and oxygen vacancies of ZnO in photocatalysis: a bottom-up approach to control defect density. <i>Nanoscale</i> , 2014, 6, 10224-10234.	5.6	320
2	One-step synthesis of ZnO nanosheets: a blue-white fluorophore. <i>Nanoscale Research Letters</i> , 2012, 7, 470.	5.7	317
3	Review of one-dimensional and two-dimensional nanostructured materials for hydrogen generation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2960-2986.	2.8	151
4	Selective isolation of the electron or hole in photocatalysis: ZnO@TiO ₂ and TiO ₂ @ZnO core-shell structured heterojunction nanofibers via electrospinning and atomic layer deposition. <i>Nanoscale</i> , 2014, 6, 5735.	5.6	139
5	Enhanced photocatalytic activity of homoassembled ZnO nanostructures on electrospun polymeric nanofibers: A combination of atomic layer deposition and hydrothermal growth. <i>Applied Catalysis B: Environmental</i> , 2014, 156-157, 173-183.	20.2	89
6	Unusual photoresponse of indium doped ZnO/organic thin film heterojunction. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	62
7	Electrical conduction and rheological behaviour of composites of poly(μ -caprolactone) and MWCNTs. <i>Polymer</i> , 2015, 58, 209-221.	3.8	62
8	Transformation of polymer-ZnO core-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
9	Solution-based synthesis of cobalt-doped ZnO thin films. <i>Thin Solid Films</i> , 2012, 524, 137-143.	1.8	45
10	Water-soluble non-polymeric electrospun cyclodextrin nanofiber template for the synthesis of metal oxide tubes by atomic layer deposition. <i>RSC Advances</i> , 2014, 4, 61698-61705.	3.6	45
11	Effective nanostructured morphologies for efficient hybrid solar cells. <i>Solar Energy</i> , 2014, 106, 1-22.	6.1	45
12	Sensitive Surface States and their Passivation Mechanism in CdS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21609-21618.	3.1	43
13	Fluorescence from graphene oxide and the influence of ionic, π - π interactions and heterointerfaces: electron or energy transfer dynamics. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21183-21203.	2.8	38
14	Conducting Polyaniline-Electrical Charge Transportation. <i>Materials Sciences and Applications</i> , 2013, 04, 1-10.	0.4	33
15	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
16	Defect related emission versus intersystem crossing: blue emitting ZnO/graphene oxide quantum dots. <i>Nanoscale</i> , 2015, 7, 16110-16118.	5.6	29
17	Fabrication of flexible polymer@GaN core-shell nanofibers by the combination of electrospinning and hollow cathode plasma-assisted atomic layer deposition. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5199-5206.	5.5	26
18	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

#	ARTICLE	IF	CITATIONS
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	Electrospinning Combined with Atomic Layer Deposition to Generate Applied Nanomaterials: A Review. ACS Applied Nano Materials, 2020, 3, 6186-6209.	5.0	23
21	Amorphous to Tetragonal Zirconia Nanostructures and Evolution of Valence and Core Regions. Journal of Physical Chemistry C, 2015, 119, 23268-23273.	3.1	19
22	Reduced recombination and enhanced UV-assisted photocatalysis by highly anisotropic titanates from electrospun TiO ₂ @SiO ₂ nanostructures. RSC Advances, 2014, 4, 27979.	3.6	18
23	Negative photoresponse in ZnO@PEDOT:PSS nanocomposites and photogating effects. Nanoscale Advances, 2019, 1, 2435-2443.	4.6	12
24	Associative behaviour and effect of functional groups on the fluorescence of graphene oxide. Physical Chemistry Chemical Physics, 2018, 20, 7559-7569.	2.8	11
25	Solvothermal synthesis of graphene oxide and its composites with poly(μ -caprolactone). Nanoscale, 2019, 11, 18672-18682.	5.6	11
26	Graphene oxide-doped PEDOT:PSS as hole transport layer in inverted bulk heterojunction solar cell. Journal of Materials Science: Materials in Electronics, 2020, 31, 3576-3584.	2.2	11
27	Tuning the degree of oxidation and electron delocalization of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) with solid-electrolyte. Applied Surface Science, 2017, 419, 770-777.	6.1	9
28	Ultrafast generation and decay of a surface metal. Nature Communications, 2021, 12, 978.	12.8	9
29	Excitation dependent recombination studies on SnO ₂ /TiO ₂ electrospun nanofibers. RSC Advances, 2015, 5, 66367-66375.	3.6	8
30	Surface ionic states and structure of titanate nanotubes. RSC Advances, 2015, 5, 82977-82982.	3.6	8
31	Flexible polymer microtubes and microchannels via electrospinning. Materials Letters, 2011, 65, 3493-3495.	2.6	7
32	Electron-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
33	Controlling the photoconductivity: Graphene oxide and polyaniline self assembled intercalation. Applied Physics Letters, 2015, 106, 051106.	3.3	5
34	Optoelectronic Properties of Layered Titanate Nanostructure and Polyaniline Impregnated Devices. ChemistrySelect, 2016, 1, 5885-5891.	1.5	5
35	Temporary and permanent changes to the defect equilibrium due to ultraviolet exposure: Surface and bulk effects on ZnO nanostructures. Applied Surface Science, 2018, 457, 676-683.	6.1	5
36	Uncovering the (un-)occupied electronic structure of a buried hybrid interface. Journal of Physics Condensed Matter, 2019, 31, 094001.	1.8	5

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37	Ultrashort and metastable doping of the ZnO surface by photoexcited defects. Faraday Discussions, 0, 237, 58-79.	3.2	4
38	Non-universal behavior well above the percolation threshold and thermal properties of core-shell-magnetite-polymer fibers. Journal of Applied Physics, 2011, 110, 113718.	2.5	3
39	Photoexcited organic molecules en route to highly efficient autoionization. Journal of Chemical Physics, 2020, 152, 074715.	3.0	3
40	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
41	Distinguishing strain, charge and molecular orbital induced effects on the electronic structure: graphene/ammonia system. Journal of Physics Condensed Matter, 2020, 32, 455501.	1.8	1
42	Electrical Conductivity for Quasiparticle Graphene-Like System. Springer Proceedings in Physics, 2021, , 187-193.	0.2	0