

Chacko Jacob

List of Publications by Year in descending order

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56
papers

979
citations

516710

16
h-index

454955

30
g-index

56
all docs

56
docs citations

56
times ranked

1311
citing authors

#	ARTICLE	IF	CITATIONS
1	Epitaxial growth of 3C-SiC films on 4 in. diam (100) silicon wafers by atmospheric pressure chemical vapor deposition. <i>Journal of Applied Physics</i> , 1995, 78, 5136-5138.	2.5	234
2	Preparation of transparent ZnO thin films and their application in UV sensor devices. <i>Solid-State Electronics</i> , 2012, 73, 44-50.	1.4	116
3	Ammonia vapour sensing properties of <i>in situ</i> polymerized conducting PANI-nanofiber/WS ₂ nanosheet composites. <i>New Journal of Chemistry</i> , 2018, 42, 735-745.	2.8	64
4	The effect of Fe and Ni catalysts on the growth of multiwalled carbon nanotubes using chemical vapor deposition. <i>Journal of Nanoparticle Research</i> , 2010, 12, 457-465.	1.9	55
5	Surface enhanced Raman scattering and photoluminescence properties of catalytic grown ZnO nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 805-811.	2.3	41
6	Current transport properties of Pd/3C-SiC Schottky junctions with planar and vertical structures. <i>Solid State Sciences</i> , 2004, 6, 377-382.	3.2	28
7	Homocomposites of chopped fluorinated polyethylene fiber with low-density polyethylene matrix. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 479, 125-135.	5.6	28
8	Enhanced Gas Sensing Properties of Liquid-Processed Semiconducting Tungsten Chalcogenide (WX _i , X = O and S) Based Hybrid Nanomaterials. <i>IEEE Sensors Journal</i> , 2018, 18, 3494-3501.	4.7	25
9	Site-selective synthesis of <i>in situ</i> Ni-filled multi-walled carbon nanotubes using Ni(salen) as a catalyst source. <i>Nanotechnology</i> , 2010, 21, 415605.	2.6	22
10	Growth temperature dependence of partially Fe filled MWCNT using chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2009, 311, 4692-4697.	1.5	20
11	Random and self-aligned growth of 3C-SiC nanorods via VLS-VS mechanism on the same silicon substrate. <i>Materials Letters</i> , 2014, 135, 103-106.	2.6	19
12	Synthesis of V-shaped MnO ₂ nanostructure and its composites with reduced graphene oxide for supercapacitor application. <i>Dalton Transactions</i> , 2021, 50, 6878-6888.	3.3	19
13	Selective epitaxy and lateral overgrowth of 3C-SiC on Si - A review. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2005, 51, 43-69.	4.0	18
14	Plasmon Triggered, Enhanced Light-Matter Interactions in Au-MoS ₂ Coupled System with Superior Photosensitivity. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11023-11034.	3.1	18
15	The influence of diluent gas composition and temperature on SiC nanopowder formation by CVD. <i>Journal of Materials Science</i> , 2007, 42, 5142-5146.	3.7	17
16	Growth and luminescence properties of large-scale zinc oxide nanotetrapods. <i>Crystal Research and Technology</i> , 2008, 43, 751-755.	1.3	17
17	The fabrication of stable superhydrophobic surfaces using a thin Au/Pd coating over a hydrophilic 3C-SiC nanorod network. <i>Applied Surface Science</i> , 2015, 353, 964-972.	6.1	17
18	Selective Epitaxial Growth of Silicon Carbide on Patterned Silicon Substrates Using Hexachlorodisilane and Propane. <i>Materials Science Forum</i> , 2000, 338-342, 249-252.	0.3	16

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19	Multiwall and bamboo-like carbon nanotube growth by CVD using a semimetal as a catalyst. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 79-85.	3.5	15
20	Synthesis of 3C-silicon carbide 1D structures by carbothermal reduction process. <i>Journal of Alloys and Compounds</i> , 2021, 857, 158243.	5.5	15
21	Thickness dependent growth of needle-like and flower-like ZnO nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 771-775.	2.2	13
22	Catalytic synthesis of ZnO nanorods on patterned silicon wafer—An optimum material for gas sensor. <i>Bulletin of Materials Science</i> , 2009, 32, 493-498.	1.7	13
23	Synthesis of CuO Nanoflowers and Their Application Towards Inflammable Gas Sensing. <i>Journal of Electronic Materials</i> , 2020, 49, 5070-5076.	2.2	13
24	Low Temperature Selective and Lateral Epitaxial Growth of Silicon Carbide on Patterned Silicon Substrates. <i>Materials Science Forum</i> , 2001, 353-356, 127-130.	0.3	12
25	ZnO nanostructures growth with silver catalyst—Effect of annealing. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 792-796.	2.7	12
26	Substrate free synthesis of graphene nanoflakes by atmospheric pressure chemical vapour deposition using Ni powder as a catalyst. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	1.7	12
27	Selective Epitaxial Growth of Pyramidal 3C-SiC on Patterned Si Substrate. <i>Materials Science Forum</i> , 2002, 389-393, 331-334.	0.3	10
28	Effect of growth temperature on the CVD grown Fe filled multi-walled carbon nanotubes using a modified photoresist. <i>Materials Research Bulletin</i> , 2010, 45, 1189-1193.	5.2	10
29	Carbon nanotube synthesis from propane decomposition on a pre-treated Ni overlayer. <i>Bulletin of Materials Science</i> , 2009, 32, 135-140.	1.7	8
30	Influence of chemical potential on shape evolution of 2D-MoS ₂ flakes produced by chemical vapor deposition. <i>Nanotechnology</i> , 2021, 32, 045301.	2.6	8
31	Effect of Surface Fluorination of Poly (p-Phenylene Terephthalamide) Fiber. <i>Defence Science Journal</i> , 2014, 64, 230-235.	0.8	7
32	Etching of GaAs substrates to create As-rich surface. <i>Bulletin of Materials Science</i> , 2007, 30, 561-565.	1.7	6
33	Study of high energy Mn ⁺ ion implantation in GaAs. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 89-94.	2.3	6
34	Control of Pendeo Epitaxial Growth of 3C-SiC on Silicon Substrate. <i>Materials Science Forum</i> , 2003, 433-436, 209-212.	0.3	5
35	A Simple Method to Synthesize Nano-Sized 3C-SiC Powder Using Hexamethyldisilane in a CVD Reactor. <i>Materials Science Forum</i> , 2006, 527-529, 767-770.	0.3	5
36	Pre-Heating Effect on the Catalytic Growth of Partially Filled Carbon Nanotubes by Chemical Vapor Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 3064-3071.	0.9	5

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37	Influence of hydrogen on chemical vapour synthesis of different carbon nanostructures using propane as precursor and nickel as catalyst. Bulletin of Materials Science, 2014, 37, 1197-1204.	1.7	5
38	Surface Morphology of 4H-SiC Inclined towards $\sim 1-100^\circ$ and $\sim 11-20^\circ$; Grown by APCVD Using the $\text{SiCl}_2/\text{Cl}_2/\text{C}_3\text{H}_8/\text{H}_2$ System. Materials Science Forum, 2001, 353-356, 139-142.	0.3	4
39	Adhesion of water droplets by low voltage electrowetting on a superhydrophobic surface of a 3C-SiC nanorod network. Materials Research Express, 2015, 2, 125004.	1.6	4
40	Decoration of hierarchical Au/Pd nanostructures on 3C-SiC nanorods. Materials Letters, 2015, 148, 50-54.	2.6	4
41	Gaseous Etching Effects on Homoepitaxial Growth of SiC on Hemispherical Substrates Using CVD. Materials Science Forum, 2001, 353-356, 123-126.	0.3	2
42	Lithographically defined site-selective growth of Fe filled multi-walled carbon nanotubes using a modified photoresist. Carbon, 2010, 48, 2371-2375.	10.3	2
43	Microwave-hydrothermally synthesized MnO ₂ nano-rods/flakes for high-performance electrochemical supercapacitors. AIP Conference Proceedings, 2020, , .	0.4	2
44	Low Temperature Lateral Epitaxial Growth of Silicon Carbide on Silicon. Materials Research Society Symposia Proceedings, 2000, 622, 411.	0.1	1
45	Improvement of 3C-SiC Surface Morphology on Si(100) by Adding HCl using Atmospheric CVD. Materials Science Forum, 2000, 338-342, 257-260.	0.3	1
46	Morphological Stability of 6H-SiC Epitaxial Layer on Hemispherical Substrates Prepared by Chemical Vapor Deposition. Materials Science Forum, 2000, 338-342, 197-200.	0.3	1
47	A Comparative Study of the Synthesis of Carbon Nanotubes Using Ni and Fe as Catalyst. Advanced Materials Research, 0, 67, 89-94.	0.3	1
48	Patterned Silicon Wafer for Selective β -SiC Nanowire Growth. Advanced Materials Research, 2009, 67, 77-82.	0.3	1
49	Annealing Effect of Mn thin Films on GaAs. Journal of Superconductivity and Novel Magnetism, 2009, 22, 401-407.	1.8	1
50	A combination of "top-down" and "bottom-up" approaches in the fabrication of "nano bridges". Journal of Materials Science: Materials in Electronics, 2015, 26, 435-440.	2.2	1
51	Surface Morphology of 6H-SiC on various a-plane using $\text{Si}_2\text{Cl}_6 + \text{C}_3\text{H}_8 + \text{H}_2$ by Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 2000, 640, 1.	0.1	0
52	Epitaxial Growth of SiC on AlN/ Sapphire Using Hexamethyldisilane by MOVPE. Materials Research Society Symposia Proceedings, 2000, 640, 1.	0.1	0
53	Growth of Columnar SiC on Patterned Si Substrates by CVD. Materials Research Society Symposia Proceedings, 2002, 742, 171.	0.1	0
54	Selective Epitaxial Growth of 3C-SiC on Si Using Hexamethyldisilane in a Resistance Heated MOCVD Reactor. Materials Science Forum, 2006, 527-529, 303-306.	0.3	0

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55	Surface passivation dictated site-selective growth of aligned carbon nanotubes. <i>Nanoscale</i> , 2020, 12, 23042-23051.	5.6	0
56	Catalytic Growth of 3C-SiC Nanorods: Structural and Optical Characterization. <i>Environmental Science and Engineering</i> , 2014, , 543-545.	0.2	0