

Chacko Jacob

List of Publications by Year in descending order

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56
papers

979
citations

516710

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454955

30
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56
all docs

56
docs citations

56
times ranked

1311
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of 3C-silicon carbide 1D structures by carbothermal reduction process. Journal of Alloys and Compounds, 2021, 857, 158243.	5.5	15
2	Synthesis of V-shaped MnO ₂ nanostructure and its composites with reduced graphene oxide for supercapacitor application. Dalton Transactions, 2021, 50, 6878-6888.	3.3	19
3	Plasmon Triggered, Enhanced Light-Matter Interactions in Au-MoS ₂ Coupled System with Superior Photosensitivity. Journal of Physical Chemistry C, 2021, 125, 11023-11034.	3.1	18
4	Influence of chemical potential on shape evolution of 2D-MoS ₂ flakes produced by chemical vapor deposition. Nanotechnology, 2021, 32, 045301.	2.6	8
5	Surface passivation dictated site-selective growth of aligned carbon nanotubes. Nanoscale, 2020, 12, 23042-23051.	5.6	0
6	Synthesis of CuO Nanoflowers and Their Application Towards Inflammable Gas Sensing. Journal of Electronic Materials, 2020, 49, 5070-5076.	2.2	13
7	Microwave-hydrothermally synthesized MnO ₂ nano-rods/flakes for high-performance electrochemical supercapacitors. AIP Conference Proceedings, 2020, , .	0.4	2
8	Substrate free synthesis of graphene nanoflakes by atmospheric pressure chemical vapour deposition using Ni powder as a catalyst. Bulletin of Materials Science, 2019, 42, 1.	1.7	12
9	Enhanced Gas Sensing Properties of Liquid-Processed Semiconducting Tungsten Chalcogenide (WX ₂ , X = O and S) Based Hybrid Nanomaterials. IEEE Sensors Journal, 2018, 18, 3494-3501.	4.7	25
10	Ammonia vapour sensing properties of <i>in situ</i> polymerized conducting PANI-nanofiber/WS ₂ nanosheet composites. New Journal of Chemistry, 2018, 42, 735-745.	2.8	64
11	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
12	The fabrication of stable superhydrophobic surfaces using a thin Au/Pd coating over a hydrophilic 3C-SiC nanorod network. Applied Surface Science, 2015, 353, 964-972.	6.1	17
13	Decoration of hierarchical Au/Pd nanostructures on 3C-SiC nanorods. Materials Letters, 2015, 148, 50-54.	2.6	4
14	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
15	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
16	Random and self-aligned growth of 3C-SiC nanorods via VLS-VS mechanism on the same silicon substrate. Materials Letters, 2014, 135, 103-106.	2.6	19
17	Effect of Surface Fluorination of Poly (p-Phenylene Terephthalamide) Fiber. Defence Science Journal, 2014, 64, 230-235.	0.8	7
18	Catalytic Growth of 3C-SiC Nanorods: Structural and Optical Characterization. Environmental Science and Engineering, 2014, , 543-545.	0.2	0

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19	Multiwalled 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	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
21	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
22	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
23	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
24	Lithographically defined site-selective growth of Fe filled multi-walled carbon nanotubes using a modified photoresist. <i>Carbon</i> , 2010, 48, 2371-2375.	10.3	2
25	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
26	Patterned Silicon Wafer for Selective ^{12}C -SiC Nanowire Growth. <i>Advanced Materials Research</i> , 2009, 67, 77-82.	0.3	1
27	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
28	Annealing Effect of Mn thin Films on GaAs. <i>Journal of Superconductivity and Novel Magnetism</i> , 2009, 22, 401-407.	1.8	1
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	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
31	Study of high energy Mn ⁺¹ ion implantation in GaAs. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 89-94.	2.3	6
32	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
33	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
34	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
35	Growth and luminescence properties of large-scale zinc oxide nanotetrapods. <i>Crystal Research and Technology</i> , 2008, 43, 751-755.	1.3	17
36	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

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37	The influence of diluent gas composition and temperature on SiC nanopowder formation by CVD. Journal of Materials Science, 2007, 42, 5142-5146.	3.7	17
38	Etching of GaAs substrates to create As-rich surface. Bulletin of Materials Science, 2007, 30, 561-565.	1.7	6
39	A Simple Method to Synthesize Nano-Sized 3C-SiC Powder Using Hexamethyldisilane in a CVD Reactor. Materials Science Forum, 2006, 527-529, 767-770.	0.3	5
40	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
41	Selective epitaxy and lateral overgrowth of 3C-SiC on Si – A review. Progress in Crystal Growth and Characterization of Materials, 2005, 51, 43-69.	4.0	18
42	Current transport properties of Pd/3C-SiC Schottky junctions with planar and vertical structures. Solid State Sciences, 2004, 6, 377-382.	3.2	28
43	Control of Pendeo Epitaxial Growth of 3C-SiC on Silicon Substrate. Materials Science Forum, 2003, 433-436, 209-212.	0.3	5
44	Selective Epitaxial Growth of Pyramidal 3C-SiC on Patterned Si Substrate. Materials Science Forum, 2002, 389-393, 331-334.	0.3	10
45	Growth of Columnar SiC on Patterned Si Substrates by CVD. Materials Research Society Symposia Proceedings, 2002, 742, 171.	0.1	0
46	Gaseous Etching Effects on Homoepitaxial Growth of SiC on Hemispherical Substrates Using CVD. Materials Science Forum, 2001, 353-356, 123-126.	0.3	2
47	Low Temperature Selective and Lateral Epitaxial Growth of Silicon Carbide on Patterned Silicon Substrates. Materials Science Forum, 2001, 353-356, 127-130.	0.3	12
48	Surface Morphology of 4H-SiC Inclined towards $\langle 110 \rangle$ and $\langle 11\bar{2}0 \rangle$; 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
49	Low Temperature Lateral Epitaxial Growth of Silicon Carbide on Silicon. Materials Research Society Symposia Proceedings, 2000, 622, 411.	0.1	1
50	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
51	Epitaxial Growth of SiC on AlN/ Sapphire Using Hexamethyldisilane by MOVPE. Materials Research Society Symposia Proceedings, 2000, 640, 1.	0.1	0
52	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
53	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
54	Selective Epitaxial Growth of Silicon Carbide on Patterned Silicon Substrates Using Hexachlorodisilane and Propane. Materials Science Forum, 2000, 338-342, 249-252.	0.3	16

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55	Epitaxial growth of 3C-SiC films on 4 in. diam (100) silicon wafers by atmospheric pressure chemical vapor deposition. Journal of Applied Physics, 1995, 78, 5136-5138.	2.5	234
56	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