R Navamathavan

List of Publications by Year
in descending order

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86	1,775	236925 25	315739 38
papers	citations	h-index	g-index

86	86	86	2496
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evidence of strong correlation and magnetotransport scaling in YbFe2As2. Physica B: Condensed Matter, 2022, 630, 413696.	2.7	0
2	Reviewâ€"State of the Art of the Multifunctional Bismuth Ferrite: Synthesis Method and Applications. ECS Journal of Solid State Science and Technology, 2022, 11, 043010.	1.8	5
3	Graphitic carbon nitride encapsulated sonochemically synthesized Î²-nickel hydroxide nanocomposites for electrocatalytic hydrogen generation. International Journal of Hydrogen Energy, 2022, 47, 40349-40358.	7.1	10
4	One-step facile hydrothermal synthesis of rGO-CoS2 nanocomposites for high performance HER electrocatalysts. International Journal of Hydrogen Energy, 2022, 47, 40359-40367.	7.1	16
5	X-ray photoelectron spectroscopy study on YbFe2As2 crystals prepared by different growth temperatures. Physica B: Condensed Matter, 2021, 604, 412688.	2.7	2
6	Recent advancements in liquefied petroleum gas sensors: A topical review. Sensors International, 2021, 2, 100091.	8.4	12
7	Green Synthesis of Silver Nanoparticles Using Aqueous Rhizome Extract of Corallocarpus Epigaeus for Biomedical Applications. Applied Science and Convergence Technology, 2021, 30, 54-61.	0.9	4
8	Two-dimensional metal carbides and nitrides from head to toe with energy applications: A topical review. Ceramics International, 2021, 47, 32477-32489.	4.8	9
9	Physical properties and electronic structure of YbFe2As2. Journal of Magnetism and Magnetic Materials, 2020, 493, 165736.	2.3	3
10	Improved Structural and Electrical Properties of ZnO-Based Thin Film Transistors by Using Pulsed KrF Excimer Laser Irradiation. Journal of Electronic Materials, 2019, 48, 3137-3144.	2.2	4
11	Synthesis of GNS-MnS hybrid nanocomposite for enhanced electrochemical energy storage applications. Materials Chemistry and Physics, 2019, 230, 249-257.	4.0	22
12	Electrochemical investigation of manganese ferrites prepared via a facile synthesis route for supercapacitor applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 538, 668-677.	4.7	76
13	Spherical-Like Ball-by-Ball Architecture of Ni-Co-Zn-S Electrodes for Electrochemical Energy Storage Application in Supercapacitors. Journal of the Electrochemical Society, 2017, 164, E434-E439.	2.9	15
14	Investigation of Oxygen-Adsorbed Iron Pnictide Crystals. Journal of Superconductivity and Novel Magnetism, 2017, 30, 287-292.	1.8	3
15	Synthesis and physical properties of oxygen adsorbed YbFe2As2. Materials Research Express, 2017, 4, 086101.	1.6	2
16	Hierarchical growth of GaN nanowires for light emitting diode applications. , 2016, , .		0
17	The study of efficiency of Al2O3 drop coated electrospun meta-aramid nanofibers as separating membrane in lithium-ion secondary batteries. Materials Letters, 2014, 132, 384-388.	2.6	31
18	Direct comparison on the structural and optical properties of metal-catalytic and self-catalytic assisted gallium nitride (GaN) nanowires by chemical vapor deposition. RSC Advances, 2014, 4, 45100-45108.	3.6	8

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19	Recent Progress on the Fabrication of Ultrafine Polyamide-6 Based Nanofibers Via Electrospinning: A Topical Review. Nano-Micro Letters, 2014, 6, 89-107.	27.0	39
20	Enhanced electrical properties of electrospun nylon66 nanofibers containing carbon nanotube fillers and Ag nanoparticles. Fibers and Polymers, 2014, 15, 918-923.	2.1	7
21	Non-polar InGaN quantum dots grown on the m-plane of n-GaN nanowires by a self-catalyst method using metal organic chemical vapor deposition. CrystEngComm, 2014, 16, 7580.	2.6	6
22	Method of sealing pores in porous low-k SiOC(-H) films fabricated using plasma-assisted atomic layer deposition. Journal of the Korean Physical Society, 2013, 62, 1143-1149.	0.7	5
23	Influence of antimicrobial additives on the formation of rosin nanofibers via electrospinning. Colloids and Surfaces B: Biointerfaces, 2013, 104, 262-267.	5.0	29
24	Mechanical behavior of electrospun Nylon66 fibers reinforced with pristine and treated multi-walled carbon nanotube fillers. Ceramics International, 2013, 39, 8199-8206.	4.8	17
25	Fabrication and characterization of IIâ€“VI semiconductor nanoparticles decorated electrospun polyacrylonitrile nanofibers. Journal of Colloid and Interface Science, 2013, 397, 65-72.	9.4	18
26	Radial growth behavior and characteristics of m-plane In0.16Ga0.84N/GaN MQW nanowires by MOCVD. CrystEngComm, 2013, 15, 1874.	2.6	17
27	High-Quality Uniaxial In_xGa_{1â€“x}N/GaN Multiple Quantum Well (MQW) Nanowires (NWs) on Si(111) Grown by Metal-Organic Chemical Vapor Deposition (MOCVD) and Light-Emitting Diode (LED) Fabrication. ACS Applied Materials & Interfaces, 2013, 5, 2111-2117.	8.0	46
28	Preparation and characterization of copper oxide particles incorporated polyurethane composite nanofibers by electrospinning. Ceramics International, 2013, 39, 9651-9658.	4.8	25
29	The effects of UV radiation on SiC(O)N/SiOC(â˜ H) thin films grown on Si substrates using plasma-enhanced atomic layer deposition. Thin Solid Films, 2013, 547, 151-155.	1.8	3
30	Coaxial In_xGa_{1â€“x}N/GaN Multiple Quantum Well Nanowire Arrays on Si(111) Substrate for High-Performance Light-Emitting Diodes. Nano Letters, 2013, 13, 3506-3516.	9.1	95
31	Characterisation of bioresourced hydroxyapatite containing silver nanoparticles. Materials Research Innovations, 2012, 16, 249-256.	2.3	3
32	Electrical characterization of nylon-6 composite nanofibers. Journal of Physics and Chemistry of Solids, 2012, 73, 1326-1330.	4.0	4
33	Silver-Loaded Biomimetic Hydroxyapatite Grafted Poly(<I>Îµ</I>-caprolactone) Composite Nanofibers: A Cytotoxicity Study. Journal of Biomedical Nanotechnology, 2012, 8, 125-132.	1.1	19
34	Growth characteristics of uniaxial InGaN/GaN MQW/n-GaN nanowires on Si(111) using MOCVD. CrystEngComm, 2012, 14, 8208.	2.6	18
35	Growth behavior of GaN epilayers on Si(111) grown by GaN nanowires assisted epitaxial lateral overgrowth. CrystEngComm, 2012, 14, 5558.	2.6	11
36	Synthesis and characterizations of Pt nanorods on electrospun polyamide-6 nanofibers templates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 826-831.	3.5	3

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37	Electrospun nickel doped titanium dioxide nanofibers as an effective photocatalyst for the hydrolytic dehydrogenation of ammonia borane. International Journal of Hydrogen Energy, 2012, 37, 10036-10045.	7.1	37
38	Effects of ultraviolet irradiation treatment on low-k SiOC(â^'H) ultra-thin films deposited by using TMS/O2 PEALD. Journal of the Korean Physical Society, 2012, 60, 800-806.	0.7	3
39	A study on electrospun nylon-6/TiO2 composite nanofibers. Journal of the Korean Physical Society, 2012, 60, 1741-1744.	0.7	0
40	Photocatalytic activities of electrospun tin oxide doped titanium dioxide nanofibers. Ceramics International, 2012, 38, 4533-4540.	4.8	33
41	Size effects of nano-pattern in Si(111) substrate on the selective growth behavior of GaN nanowires by MOCVD. Materials Research Bulletin, 2012, 47, 836-842.	5.2	2
42	Hydroxyapatite Mineralization on the Calcium Chloride Blended Polyurethane Nanofiber via Biomimetic Method. Nanoscale Research Letters, 2011, 6, 2.	5.7	63
43	Synthesis and Electrical Properties of TiO2 Nanoparticles Embedded in Polyamide-6 Nanofibers Via Electrospinning. Nano-Micro Letters, 2011, 3, 56-61.	27.0	17
44	Bactericidal Activity and <I>In</I> <I>Vitro</I> Cytotoxicity Assessment of Hydroxyapatite Containing Gold Nanoparticles. Journal of Biomedical Nanotechnology, 2011, 7, 342-350.	1.1	19
45	Photocatalytic Properties of Silver Nanoparticles Decorated Nanobranched TiO₂ Nanofibers. Journal of Nanoscience and Nanotechnology, 2011, 11, 6886-6892.	0.9	3
46	Selective area growth of GaN nanowires using metalorganic chemical vapor deposition on nano-patterned Si(111) formed by the etching of nano-sized Au droplets. Thin Solid Films, 2011, 520, 126-130.	1.8	6
47	Preparation and electrical characterization of polyamide-6/chitosan composite nanofibers via electrospinning. Materials Letters, 2011, 65, 493-496.	2.6	29
48	UV irradiation effects on the bonding structure and electrical properties of ultra low-k SiOC(â€“H) thin films for 45 nm technology node. Current Applied Physics, 2011, 11, S109-S113.	2.4	9
49	Electrical properties of ultrafine nylon-6 nanofibers prepared via electrospinning. Fibers and Polymers, 2011, 12, 1021-1024.	2.1	12
50	Synthesis and characterization of bovine femur bone hydroxyapatite containing silver nanoparticles for the biomedical applications. Journal of Nanoparticle Research, 2011, 13, 1917-1927.	1.9	58
51	The growth behavior of GaN NWs on Si(1 1 1) by the dispersion of Au colloid catalyst using pulsed MOCVD. Journal of Crystal Growth, 2011, 319, 31-38.	1.5	10
52	Different growth behaviors of GaN nanowires grown with Au catalyst and Au + Ga solid solution nano-droplets on Si(111) substrates by using MOCVD. Current Applied Physics, 2011, 11, 77-81.	2.4	30
53	Preparation and characterizations of anisotropic chitosan nanofibers via electrospinning. Macromolecular Research, 2011, 19, 345-350.	2.4	42
54	Preparation of polyamide-6/chitosan composite nanofibers by a single solvent system via electrospinning for biomedical applications. Colloids and Surfaces B: Biointerfaces, 2011, 83, 173-178.	5.0	100

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55	Lecithin blended polyamide-6 high aspect ratio nanofiber scaffolds via electrospinning for human osteoblast cell culture. Materials Science and Engineering C, 2011, 31, 486-493.	7.3	53
56	Effect of NH3 plasma treatment on the device performance of ZnO based thin film transistors. Vacuum, 2011, 85, 904-907.	3.5	17
57	Ultraviolet irradiation effect on the properties of leakage current and dielectric breakdown of low-dielectric-constant SiOC(H) films using comb capacitor structure. Thin Solid Films, 2011, 519, 6732-6736.	1.8	20
58	Effect of solvents on high aspect ratio polyamide-6 nanofibers via electrospinning. Macromolecular Research, 2010, 18, 759-765.	2.4	33
59	The influence of the working pressure on the synthesis of GaN nanowires by using MOCVD. Journal of Crystal Growth, 2010, 312, 770-774.	1.5	21
60	Bicrystalline GaN nanowires grown by the formation of Pt+Ga solid solution nano-droplets on Si(1 1) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.5	8
61	Study of Cu diffusion behavior in low dielectric constant SiOC(â€“H) films deposited by plasma-enhanced chemical vapor deposition. Thin Solid Films, 2010, 518, 6474-6477.	1.8	9
62	Effect of evaporated copper and aluminum on post-annealed SiOC(â€“H) films deposited using plasma-enhanced chemical vapor deposition. Thin Solid Films, 2010, 518, 6469-6473.	1.8	1
63	Structural, thermal, mechanical and bioactivity evaluation of silver-loaded bovine bone hydroxyapatite grafted poly(Îµ-caprolactone) nanofibers via electrospinning. Surface and Coatings Technology, 2010, 205, 174-181.	4.8	54
64	Formation of high aspect ratio polyamide-6 nanofibers via electrically induced double layer during electrospinning. Applied Surface Science, 2010, 256, 6318-6323.	6.1	41
65	Preparation and Properties of Low Dielectric Constant SiOC(-H) Thin Films Deposited by Using PECVD. Journal of the Korean Physical Society, 2010, 56, 818-822.	0.7	2
66	GaN Nanowires with Au+Ga Solid Solution Grown on an Si(111) Substrate by Metalorganic Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2009, 48, 091001.	1.5	17
67	Electrical properties of ZnO-based bottom-gate thin film transistors fabricated by using radio frequency magnetron sputtering. Journal of Alloys and Compounds, 2009, 475, 889-892.	5.5	22
68	Effects of the formation temperature of Au + Ga solid solution droplets on the growth behaviors of GaN nanowires on Si(111) by using MOCVD. Journal of the Korean Physical Society, 2009, 55, 1496-1500.	0.7	3
69	Investigation of Electrical Conduction in Low-dielectric-constantSiOC(-H) Thin Films Deposited by Using PECVD. Journal of the Korean Physical Society, 2009, 55, 227-231.	0.7	7
70	Fabrication and characterizations of ZnO thin film transistors prepared by using radio frequency magnetron sputtering. Solid-State Electronics, 2008, 52, 813-816.	1.4	49
71	Electrical characterization of low-k films with nano-pore structure prepared with DMDMOS/O2 precursors. Surface and Coatings Technology, 2008, 202, 5688-5692.	4.8	9
72	A nanoindentation analysis of the influence of lattice mismatch on some wide band gap semiconductor films. Physica B: Condensed Matter, 2008, 403, 675-678.	2.7	8

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73	Nanoindentation â€˜pop-inâ€™ phenomenon in epitaxial ZnO thin films on sapphire substrates. Materials Characterization, 2008, 59, 359-364.	4.4	27
74	Plasma Diagnostics during Plasma-Enhanced Chemical-Vapor Deposition of Low-Dielectric-Constant SiOC(-H) Films from TES/O2 Precursors. Journal of the Korean Physical Society, 2008, 53, 1468-1474.	0.7	12
75	Plasma enhanced chemical vapor deposition of low dielectric constant SiOC(â€“H) films using MTES/O2 precursor. Thin Solid Films, 2007, 515, 5040-5044.	1.8	8
76	Characteristics of low-k SiOC(â€“H) films deposited at various substrate temperature by PECVD using DMDMS/O2 precursor. Thin Solid Films, 2007, 516, 340-344.	1.8	54
77	Deformation behavior during nanoindentation of epitaxial ZnO thin films on sapphire substrate. Materials Letters, 2007, 61, 2443-2445.	2.6	7
78	Mechanical properties of some binary, ternary and quaternary IIIâ€“V compound semiconductor alloys. Physica B: Condensed Matter, 2007, 392, 51-57.	2.7	9
79	A nanoindentation study of the mechanical properties of ZnO thin films on (0 0 0 1) sapphire. Applied Surface Science, 2006, 253, 464-467.	6.1	37
80	Characterization of surface deformation around Vickers indentations in InGaAsP epilayers on InP substrate. Applied Surface Science, 2006, 253, 2973-2977.	6.1	3
81	â€˜Pop-inâ€™ phenomenon during nanoindentation in epitaxial GaN thin films on c-plane sapphire substrates. Materials Chemistry and Physics, 2006, 99, 410-413.	4.0	38
82	Microindentation studies of Hg0.7Cd0.3Te/CdTe compound semiconductor alloy. Materials Letters, 2006, 60, 2949-2953.	2.6	5
83	Effects of Electrical Bias Stress on the Performance of ZnO-Based TFTs Fabricated by RF Magnetron Sputtering. Journal of the Electrochemical Society, 2006, 153, G385.	2.9	60
84	Effect of Interlayers on the Indium Oxide-Doped ZnO Ohmic Contact to p-Type GaN. Journal of the Electrochemical Society, 2005, 152, G491.	2.9	10
85	Low-resistivity and transparent indium-oxide-doped ZnO ohmic contact to p-type GaN. Applied Physics Letters, 2004, 85, 6191-6193.	3.3	64
86	Nanoindentation studies of (111) GaAs/InP epilayers. Applied Surface Science, 2001, 180, 119-125.	6.1	7