Vinayak G Parale

List of Publications by Year
in descending order

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69 papers	1,895 citations	218592 26 h-index	302012 39 g-index
70 all docs	70 docs citations	70 times ranked	1509 citing authors

#	Article	IF	Citations
1	Microsheets like nickel cobalt phosphate thin films as cathode for hybrid asymmetric solid-state supercapacitor: Influence of nickel and cobalt ratio variation. Chemical Engineering Journal, 2022, 429, 132184.	6.6	87
2	Construction of hierarchical nickel cobalt sulfide@manganese oxide nanoarrays@nanosheets <scp>coreâ€shell</scp> electrodes for highâ€performance electrochemical asymmetric supercapacitor. International Journal of Energy Research, 2022, 46, 5250-5259.	2.2	14
3	Polyoxotungstate intercalated self-assembled nanohybrids of Zn-Cr-LDH for room temperature Cl2 sensing. Sensors and Actuators B: Chemical, 2022, 352, 131046.	4.0	12
4	Mesoporous Nanohybrids of 2D Niâ€Crâ€Layered Double Hydroxide Nanosheets Pillared with Polyoxovanadate Anions for Highâ€Performance Hybrid Supercapacitor. Advanced Materials Interfaces, 2022, 9, 2101216.	1.9	16
5	Highly Dispersed Pt Clusters on F-Doped Tin(IV) Oxide Aerogel Matrix: An Ultra-Robust Hybrid Catalyst for Enhanced Hydrogen Evolution. ACS Nano, 2022, 16, 1625-1638.	7.3	48
6	Binder free cobalt iron phosphate thin films as efficient electrocatalysts for overall water splitting. Journal of Colloid and Interface Science, 2022, 613, 720-732.	5.0	26
7	Graphene Oxide as an Efficient Hybridization Matrix for Exploring Electrochemical Activity of Two-Dimensional Cobalt-Chromium-Layered Double Hydroxide-Based Nanohybrids. ACS Applied Energy Materials, 2022, 5, 2083-2095.	2.5	16
8	2Dâ€“2D lattice engineering route for intimately coupled nanohybrids of layered double hydroxide and potassium hexaniobate: Chemiresistive SO2 sensor. Journal of Hazardous Materials, 2022, 432, 128734.	6.5	12
9	Lattice engineering route for self-assembled nanohybrids of 2D layered double hydroxide with 0D isopolyoxovanadate: chemiresistive SO2 sensor. Materials Today Chemistry, 2022, 24, 100801.	1.7	4
10	Intercalation-type pseudocapacitive clustered nanoparticles of nickelâ€“cobalt phosphate thin films synthesized via electrodeposition as cathode for high-performance hybrid supercapacitor devices. Journal of Materials Chemistry A, 2022, 10, 11225-11237.	5.2	26
11	2D-2D nanohybrids of Niâ€“Cr-layered double hydroxide and graphene oxide nanosheets: Electrode for hybrid asymmetric supercapacitors. Electrochimica Acta, 2022, 424, 140615.	2.6	17
12	Ultralow dielectric cross-linked silica aerogel nanocomposite films for interconnect technology. Applied Materials Today, 2022, 28, 101536.	2.3	11
13	Influence of Zn-substitution on structural, morphological, electrical, and gas sensing properties of Zn Al2O4 (x = 0.1 to 0.5) synthesized by a sol-gel auto-combustion method. Ceramics International, 2021, 47, 6779-6789.	2.3	3
14	Mechanical modeling and simulation of aerogels: A review. Ceramics International, 2021, 47, 2981-2998.	2.3	31
15	Solution combustion synthesis of NaFePO4 and its electrochemical performance. Chinese Journal of Physics, 2021, 69, 134-142.	2.0	15
16	Synthesis and Electrochemical Performance of Mesoporous NiMn2O4 Nanoparticles as an Anode for Lithium-Ion Battery. Journal of Composites Science, 2021, 5, 69.	1.4	11
17	Fabrication of a High-Performance Hybrid Supercapacitor Based on Hydrothermally Synthesized Highly Stable Cobalt Manganese Phosphate Thin Films. Langmuir, 2021, 37, 5260-5274.	1.6	48
18	Structural, morphological, and optical studies of hydrothermally synthesized Nb-added TiO2 for DSSC application. Ceramics International, 2021, 47, 25580-25592.	2.3	22

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19	Amorphous, hydrous nickel phosphate thin film electrode prepared by SILAR method as a highly stable cathode for hybrid asymmetric supercapacitor. Synthetic Metals, 2021, 280, 116876.	2.1	26
20	Hydrothermally synthesized urchinlike NiO nanostructures for supercapacitor and nonenzymatic glucose biosensing application. Materials Science in Semiconductor Processing, 2021, 134, 105980.	1.9	23
21	Ultrasonically dispersed ultrathin g-C3N4 nanosheet/BaBi2Nb2O9 heterojunction photocatalysts for efficient photocatalytic degradation of organic pollutant. Journal of Alloys and Compounds, 2021, 884, 161037.	2.8	21
22	Influence of Tin Doped TiO2 Nanorods on Dye Sensitized Solar Cells. Materials, 2021, 14, 6282.	1.3	7
23	Hydrophobic TiO2â€“SiO2 composite aerogels synthesized via in situ epoxy-ring opening polymerization and sol-gel process for enhanced degradation activity. Ceramics International, 2020, 46, 4939-4946.	2.3	55
24	Effect of zinc substitution on magnesium ferrite nanoparticles: Structural, electrical, magnetic, and gas-sensing properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 262, 114776.	1.7	23
25	Synthesis and Characterizations of 3D TiO₂ Nanoflowers Thin Film: Hydrothermal Method. Macromolecular Symposia, 2020, 393, 2000040.	0.4	7
26	Comparisonal studies of surface modification reaction using various silylating agents for silica aerogel. Journal of Sol-Gel Science and Technology, 2020, 96, 346-359.	1.1	13
27	Electrochemically Synthesized Nanoflowers to Nanosphere-Like NiCuSe2 Thin Films for Efficient Supercapacitor Application. Metals, 2020, 10, 1698.	1.0	17
28	Synthesis of rutile TiO2 nanostructures by single step hydrothermal route and its characterization. Materials Today: Proceedings, 2020, 23, 444-451.	0.9	26
29	Structural and mechanical properties of hybrid silica aerogel formed using triethoxy(1-phenylethenyl)silane. Microporous and Mesoporous Materials, 2020, 298, 110092.	2.2	32
30	Facile synthesis of a lightweight three-dimensional polymer scaffold dip-coated with multiple layers of TiO2 aerogel for X-band microwave absorption applications. Journal of Alloys and Compounds, 2020, 823, 153847.	2.8	28
31	Composites of silica aerogels with organics: a review of synthesis and mechanical properties. Springer Series in Emerging Cultural Perspectives in Work, Organizational, and Personnel Studies, 2020, 57, 1-23.	1.5	33
32	Flexible and lightweight Fe3O4/polymer foam composites for microwave-absorption applications. Journal of Alloys and Compounds, 2019, 805, 120-129.	2.8	44
33	SnO2 aerogel deposited onto polymer-derived carbon foam for environmental remediation. Journal of Molecular Liquids, 2019, 287, 110990.	2.3	29
34	Microwave permittivity of MWCNT, Ca1â€‰â^'â€‰xBaxBi2Nb2O9 (0â€‰â‰â€‰xâ€‰â‰â€‰1) and MWCNT/ Ca1â€‰â^'â€‰xB layered composite thick films using microstrip ring resonator overlay method. Journal of Electroceramics, 2019, 43, 64-72.	0.8	3
35	Facile Synthesis of SnO2 Aerogel/Reduced Graphene Oxide Nanocomposites via in Situ Annealing for the Photocatalytic Degradation of Methyl Orange. Nanomaterials, 2019, 9, 358.	1.9	49
36	Molecular dynamics and experimental studies of nanoindentation on nanoporous silica aerogels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 742, 344-352.	2.6	37

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37	Polypropylene/Silica Aerogel Composite Incorporating a Conformal Coating of Methyltrimethoxysilane-Based Aerogel. Journal of Nanoscience and Nanotechnology, 2019, 19, 1376-1381.	0.9	10
38	Enhanced photocatalytic activity of a mesoporous TiO2 aerogel decorated onto three-dimensional carbon foam. Journal of Molecular Liquids, 2019, 277, 424-433.	2.3	56
39	Structural and Magnetic Properties of Cr-Zn Nanoferrites Synthesized by Chemical Co-Precipitation Method. Journal of the Korean Ceramic Society, 2019, 56, 474-482.	1.1	12
40	Preparation of cobalt substituted zinc aluminium chromite: photocatalytic properties and Suzuki cross coupling reaction. Journal of Materials Science: Materials in Electronics, 2018, 29, 7274-7286.	1.1	5
41	Microwave dielectric properties of barium substituted screen printed CaBi2Nb2O9 ceramic thick films. Ceramics International, 2018, 44, 7515-7523.	2.3	32
42	Zirconia-based alumina compound aerogels with enhanced mesopore structure. Ceramics International, 2018, 44, 10579-10584.	2.3	13
43	Ambient pressure dried tetrapropoxysilane-based silica aerogels with high specific surface area. Solid State Sciences, 2018, 75, 63-70.	1.5	40
44	Facile synthesis of hydrophobic, thermally stable, and insulative organically modified silica aerogels using co-precursor method. Ceramics International, 2018, 44, 3966-3972.	2.3	43
45	Role of oxalic acid in structural formation of sodium silicate-based silica aerogel by ambient pressure drying. Journal of Sol-Gel Science and Technology, 2018, 85, 302-310.	1.1	26
46	Methyltrimethoxysilane silica aerogel composite with carboxyl-functionalised multi-wall carbon nanotubes. International Journal of Nanotechnology, 2018, 15, 587.	0.1	3
47	Enhanced microwave absorption of screen-printed multiwalled carbon nanotube/Ca1â^'xBaxBi2Nb2O9 (0â‰¤xâ‰¤1) multilayered thick film composites. Journal of Alloys and Compounds, 2018, 765, 878-887.	2.8	16
48	Silylation of sodium silicate-based silica aerogel using trimethylethoxysilane as alternative surface modification agent. Journal of Sol-Gel Science and Technology, 2018, 87, 319-330.	1.1	23
49	Structural, morphological, and magnetic properties of ZnxCo1-xFe2O4 (0â€¯â‰¤â€¯xâ€¯â‰¤â€¯1) prepared using a chemical co-precipitation method. Ceramics International, 2018, 44, 20782-20789.	2.3	21
50	Hydrophobic silica composite aerogels using poly(methyl methacrylate) by rapid supercritical extraction process. Journal of Sol-Gel Science and Technology, 2017, 83, 692-697.	1.1	21
51	Screen printed carbon nanotube thick film on alumina substrate. Ceramics International, 2017, 43, 4612-4617.	2.3	17
52	Improvement in the high temperature thermal insulation performance of Y2O3 opacified silica aerogels. Journal of Alloys and Compounds, 2017, 727, 871-878.	2.8	37
53	Flexible and Transparent Silica Aerogels: An Overview. Journal of the Korean Ceramic Society, 2017, 54, 184-199.	1.1	83
54	Organically modified silica aerogel with different functional silylating agents and effect on their physico-chemical properties. Journal of Non-Crystalline Solids, 2016, 453, 164-171.	1.5	64

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55	Synthesis and characterization of superhydrophobicâ€“superoleophilic surface. Journal of Sol-Gel Science and Technology, 2016, 78, 475-481.	1.1	28
56	Solâ€“gel preparation of PTMS modified hydrophobic and transparent silica coatings. Journal of Porous Materials, 2013, 20, 733-739.	1.3	22
57	Effect of aluminium and copper acetylacetonate on physico-chemical properties of tetraethoxysilane based silica aerogels. Journal of Porous Materials, 2013, 20, 563-570.	1.3	12
58	Superhydrophobic silica coating by dip coating method. Applied Surface Science, 2013, 277, 67-72.	3.1	73
59	OTES modified transparent dip coated silica coatings. Ceramics International, 2013, 39, 835-840.	2.3	32
60	Synthesis and physico-chemical properties of organic aerogels. , 2013, , .		0
61	Surfactant doped silica aerogels dried at supercritical pressure. AIP Conference Proceedings, 2013, , .	0.3	2
62	Methyltrimethoxysilane based flexible silica aerogels for oil absorption applications. AIP Conference Proceedings, 2012, , .	0.3	8
63	Wettability study of surface modified silica aerogels with different silylating agents. Journal of Sol-Gel Science and Technology, 2012, 63, 573-579.	1.1	39
64	Enrichment in hydrophobicity and scratch resistant properties of silica films on glass by grafted microporosity of the network. Journal of Sol-Gel Science and Technology, 2012, 64, 9-16.	1.1	13
65	Thermally stable and transparent superhydrophobic solâ€“gel coatings by spray method. Journal of Sol-Gel Science and Technology, 2012, 63, 580-586.	1.1	87
66	Recoverable and thermally stable superhydrophobic silica coating. Journal of Sol-Gel Science and Technology, 2012, 62, 490-494.	1.1	22
67	Optically transparent, superhydrophobic methyltrimethoxysilane based silica coatings without silylating reagent. Applied Surface Science, 2011, 258, 158-162.	3.1	69
68	Effect of surface composition and roughness on the apparent surface free energy of silica aerogel materials. Applied Physics Letters, 2011, 99, 104104.	1.5	43
69	Potential Application of Silica Aerogel Granules for Cleanup of Accidental Spillage of Various Organic Liquids. Soft Nanoscience Letters, 2011, 01, 97-104.	0.8	29