Vinayak G Parale

List of Publications by Year
in descending order

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Version: 2024-02-01

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	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
2	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
3	Flexible and Transparent Silica Aerogels: An Overview. Journal of the Korean Ceramic Society, 2017, 54, 184-199.	1.1	83
4	Superhydrophobic silica coating by dip coating method. Applied Surface Science, 2013, 277, 67-72.	3.1	73
5	Optically transparent, superhydrophobic methyltrimethoxysilane based silica coatings without silylating reagent. Applied Surface Science, 2011, 258, 158-162.	3.1	69
6	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
7	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
8	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
9	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
10	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
11	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
12	Flexible and lightweight Fe3O4/polymer foam composites for microwave-absorption applications. Journal of Alloys and Compounds, 2019, 805, 120-129.	2.8	44
13	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
14	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
15	Ambient pressure dried tetrapropoxysilane-based silica aerogels with high specific surface area. Solid State Sciences, 2018, 75, 63-70.	1.5	40
16	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
17	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
18	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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19	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
20	OTES modified transparent dip coated silica coatings. Ceramics International, 2013, 39, 835-840.	2.3	32
21	Microwave dielectric properties of barium substituted screen printed CaBi2Nb2O9 ceramic thick films. Ceramics International, 2018, 44, 7515-7523.	2.3	32
22	Structural and mechanical properties of hybrid silica aerogel formed using triethoxy(1-phenylethenyl)silane. Microporous and Mesoporous Materials, 2020, 298, 110092.	2.2	32
23	Mechanical modeling and simulation of aerogels: A review. Ceramics International, 2021, 47, 2981-2998.	2.3	31
24	SnO2 aerogel deposited onto polymer-derived carbon foam for environmental remediation. Journal of Molecular Liquids, 2019, 287, 110990.	2.3	29
25	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
26	Synthesis and characterization of superhydrophobicâ€“superoleophilic surface. Journal of Sol-Gel Science and Technology, 2016, 78, 475-481.	1.1	28
27	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
28	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
29	Synthesis of rutile TiO2 nanostructures by single step hydrothermal route and its characterization. Materials Today: Proceedings, 2020, 23, 444-451.	0.9	26
30	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
31	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
32	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
33	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
34	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
35	Hydrothermally synthesized urchinlike NiO nanostructures for supercapacitor and nonenzymatic glucose biosensing application. Materials Science in Semiconductor Processing, 2021, 134, 105980.	1.9	23
36	Recoverable and thermally stable superhydrophobic silica coating. Journal of Sol-Gel Science and Technology, 2012, 62, 490-494.	1.1	22

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37	Solâ€“gel preparation of PTMS modified hydrophobic and transparent silica coatings. Journal of Porous Materials, 2013, 20, 733-739.	1.3	22
38	Structural, morphological, and optical studies of hydrothermally synthesized Nb-added TiO2 for DSSC application. Ceramics International, 2021, 47, 25580-25592.	2.3	22
39	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
40	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
41	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
42	Screen printed carbon nanotube thick film on alumina substrate. Ceramics International, 2017, 43, 4612-4617.	2.3	17
43	Electrochemically Synthesized Nanoflowers to Nanosphere-Like NiCuSe2 Thin Films for Efficient Supercapacitor Application. Metals, 2020, 10, 1698.	1.0	17
44	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
45	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
46	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
47	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
48	Solution combustion synthesis of NaFePO4 and its electrochemical performance. Chinese Journal of Physics, 2021, 69, 134-142.	2.0	15
49	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
50	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
51	Zirconia-based alumina compound aerogels with enhanced mesopore structure. Ceramics International, 2018, 44, 10579-10584.	2.3	13
52	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
53	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
54	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

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55	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
56	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
57	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
58	Ultralow dielectric cross-linked silica aerogel nanocomposite films for interconnect technology. Applied Materials Today, 2022, 28, 101536.	2.3	11
59	Polypropylene/Silica Aerogel Composite Incorporating a Conformal Coating of Methyltrimethoxysilane-Based Aerogel. Journal of Nanoscience and Nanotechnology, 2019, 19, 1376-1381.	0.9	10
60	Methyltrimethoxysilane based flexible silica aerogels for oil absorption applications. AIP Conference Proceedings, 2012, , .	0.3	8
61	Synthesis and Characterizations of 3D TiO₂ Nanoflowers Thin Film: Hydrothermal Method. Macromolecular Symposia, 2020, 393, 2000040.	0.4	7
62	Influence of Tin Doped TiO2 Nanorods on Dye Sensitized Solar Cells. Materials, 2021, 14, 6282.	1.3	7
63	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
64	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
65	Methyltrimethoxysilane silica aerogel composite with carboxyl-functionalised multi-wall carbon nanotubes. International Journal of Nanotechnology, 2018, 15, 587.	0.1	3
66	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
67	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
68	Surfactant doped silica aerogels dried at supercritical pressure. AIP Conference Proceedings, 2013, , .	0.3	2
69	Synthesis and physico-chemical properties of organic aerogels. , 2013, , .		0