

Vijay Bhooshan Kumar

List of Publications by Year in descending order

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77
papers

2,269
citations

172207

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243296

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78
docs citations

78
times ranked

2850
citing authors

#	ARTICLE	IF	CITATIONS
1	Sonochemical synthesis of carbon dots, mechanism, effect of parameters, and catalytic, energy, biomedical and tissue engineering applications. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 105009.	3.8	132
2	Recent Advancement in Functional Core-Shell Nanoparticles of Polymers: Synthesis, Physical Properties, and Applications in Medical Biotechnology. <i>Journal of Nanoparticles</i> , 2013, 2013, 1-24.	1.4	96
3	Kinetics, Isotherm, and Thermodynamic Studies of Methylene Blue Adsorption on Polyaniline and Polypyrrole Macro-“Nanoparticles Synthesized by C-Dot-Initiated Polymerization. <i>ACS Omega</i> , 2018, 3, 7196-7203.	1.6	94
4	Accelerated Bone Regeneration by Nitrogen-Doped Carbon Dots Functionalized with Hydroxyapatite Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19373-19385.	4.0	89
5	Advances in nanotechnology and nanomaterials based strategies for neural tissue engineering. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 57, 101617.	1.4	88
6	Formation of nanoscale tungsten oxide structures and colouration characteristics. <i>Bulletin of Materials Science</i> , 2011, 34, 435-442.	0.8	85
7	Activated Carbon Modified with Carbon Nanodots as Novel Electrode Material for Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13406-13413.	1.5	72
8	Fluorescent metal-doped carbon dots for neuronal manipulations. <i>Ultrasonics Sonochemistry</i> , 2019, 52, 205-213.	3.8	70
9	Ultrasonic cavitation of molten gallium: Formation of micro- and nano-spheres. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1166-1173.	3.8	69
10	Facile one-step sonochemical synthesis of ultrafine and stable fluorescent C-dots. <i>Ultrasonics Sonochemistry</i> , 2016, 28, 367-375.	3.8	68
11	Refractive-Index Tuning of Highly Fluorescent Carbon Dots. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28930-28938.	4.0	51
12	The sonochemical synthesis of Ga@C-dots particles. <i>RSC Advances</i> , 2015, 5, 25533-25540.	1.7	48
13	Facile synthesis of gallium oxide hydroxide by ultrasonic irradiation of molten gallium in water. <i>Ultrasonics Sonochemistry</i> , 2015, 26, 340-344.	3.8	47
14	Sonochemical synthesis of CH ₃ NH ₃ PbI ₃ perovskite ultrafine nanocrystal sensitizers for solar energy applications. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 54-59.	3.8	47
15	Novel polymerization of aniline and pyrrole by carbon dots. <i>New Journal of Chemistry</i> , 2018, 42, 535-540.	1.4	47
16	A hydrothermal reaction of an aqueous solution of BSA yields highly fluorescent N doped C-dots used for imaging of live mammalian cells. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2913-2920.	2.9	45
17	Facile synthesis of self-assembled spherical and mesoporous dandelion capsules of ZnO: efficient carrier for DNA and anti-cancer drugs. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3956-3964.	2.9	40
18	Nitrogen-doped carbon dots prepared from bovine serum albumin to enhance algal astaxanthin production. <i>Algal Research</i> , 2017, 23, 161-165.	2.4	39

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19	Fluorescent Nanoparticles with Tissue-Dependent Affinity for Live Zebrafish Imaging. ACS Applied Materials & Interfaces, 2017, 9, 18557-18565.	4.0	39
20	Ultrasonic cavitation of molten gallium in water: entrapment of organic molecules in gallium microspheres. Journal of Materials Chemistry A, 2014, 2, 1309-1317.	5.2	38
21	Sonochemically-fabricated Ga@C-dots@Ga nanoparticle-aided neural growth. Journal of Materials Chemistry B, 2017, 5, 1371-1379.	2.9	37
22	Sonochemical synthesis, structural, magnetic and grain size dependent electrical properties of NdVO ₄ nanoparticles. Ultrasonics Sonochemistry, 2014, 21, 599-605.	3.8	36
23	<i>In-Situ</i> Transesterification of <i>Chlorella vulgaris</i> Using Carbon-Dot Functionalized Strontium Oxide as a Heterogeneous Catalyst under Microwave Irradiation. Energy & Fuels, 2016, 30, 10602-10610.	2.5	35
24	Carbon Dot Initiated Synthesis of Poly(4,4'-diaminodiphenylmethane) and Its Methylene Blue Adsorption. ACS Omega, 2018, 3, 7061-7068.	1.6	35
25	Sonochemical Formation of Ga-Pt Intermetallic Nanoparticles Embedded in Graphene and its Potential Use as an Electrocatalyst. Electrochimica Acta, 2016, 190, 659-667.	2.6	34
26	Exploring the Effect of Iron Metal-Organic Framework Particles in Polylactic Acid Membranes for the Azeotropic Separation of Organic/Organic Mixtures by Pervaporation. Membranes, 2021, 11, 65.	1.4	34
27	DSC measurements of the thermal properties of gallium particles in the micron and sub-micron sizes, obtained by sonication of molten gallium. Journal of Thermal Analysis and Calorimetry, 2015, 119, 1587-1592.	2.0	33
28	Selective conversion of starch to glucose using carbon based solid acid catalyst. Renewable Energy, 2015, 78, 141-145.	4.3	33
29	In situ sonochemical synthesis of luminescent Sn@C-dots and a hybrid Sn@C-dots@Sn anode for lithium-ion batteries. RSC Advances, 2016, 6, 66256-66265.	1.7	30
30	Development of Ga Salt of Molybdophosphoric Acid for Biomass Conversion to Levulinic Acid. Energy & Fuels, 2016, 30, 10583-10591.	2.5	30
31	Selective production of furfural from the dehydration of xylose using Zn doped CuO catalyst. Ultrasonics Sonochemistry, 2019, 56, 55-62.	3.8	30
32	Ga@C-dots as an antibacterial agent for the eradication of <i>Pseudomonas aeruginosa</i> . International Journal of Nanomedicine, 2017, Volume 12, 725-730.	3.3	29
33	One-Pot Hydrothermal Synthesis of Elements (B, N, P)-Doped Fluorescent Carbon Dots for Cell Labelling, Differentiation and Outgrowth of Neuronal Cells. ChemistrySelect, 2019, 4, 4222-4232.	0.7	29
34	Evaluation of the Potential of <i>Chlorella vulgaris</i> for Bioethanol Production. Energy & Fuels, 2016, 30, 3161-3166.	2.5	26
35	Silver and gold doped hydroxyapatite nanocomposites for enhanced bone regeneration. Biomedical Materials (Bristol), 2019, 14, 055002.	1.7	25
36	Formation of particles of bismuth-based binary alloys and intermetallic compounds by ultrasonic cavitation. New Journal of Chemistry, 2015, 39, 5374-5381.	1.4	24

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37	Designing idiosyncratic hmPCL -siRNA nanoformulated capsules for silencing and cancer therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 579-588.	1.7	23
38	Synthesis of mesoporous SiO ₂ @ZnO nanocapsules: encapsulation of small biomolecules for drugs and gene delivery. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	22
39	Glucose production from potato peel waste under microwave irradiation. <i>Journal of Molecular Catalysis A</i> , 2016, 417, 163-167.	4.8	22
40	Ultrafine Highly Magnetic Fluorescent Fe ₂ O ₃ /NCD Nanocomposites for Neuronal Manipulations. <i>ACS Omega</i> , 2018, 3, 1897-1903.	1.6	22
41	Synthesis of Doped/Hybrid Carbon Dots and Their Biomedical Application. <i>Nanomaterials</i> , 2022, 12, 898.	1.9	22
42	A Brief Review on the <i>In Situ</i> Synthesis of Boron-Doped Diamond Thin Films. <i>International Journal of Electrochemistry</i> , 2012, 2012, 1-7.	2.4	20
43	Chiral imprinting in molten gallium. <i>New Journal of Chemistry</i> , 2015, 39, 2690-2696.	1.4	20
44	Preparation and Catalytic Activity of Thermosensitive Ga ₂ O ₃ Nanorods. <i>Energy & Fuels</i> , 2016, 30, 7419-7427.	2.5	20
45	Solar-Light-Driven Photocatalytic Activity of Novel Sn@C-Dots-Modified TiO ₂ Catalyst. <i>ChemistrySelect</i> , 2017, 2, 6683-6688.	0.7	20
46	Synergistic catalytic effect of the ZnBr ₂ -HCl system for levulinic acid production using microwave irradiation. <i>RSC Advances</i> , 2015, 5, 11043-11048.	1.7	19
47	Antiparasitic Ointment Based on a Biocompatible Carbon Dot Nanocomposite. <i>ACS Applied Nano Materials</i> , 2018, 1, 1784-1791.	2.4	19
48	Nutritional assessment study and role of green silver nanoparticles in shelf-life of coconut endosperm to develop as functional food. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 1280-1288.	1.8	19
49	Fabrication of poly (4,4'-oxybisbenzamine) and its conjugated copolymers initiated by easily accessible carbon dots. <i>European Polymer Journal</i> , 2018, 109, 153-161.	2.6	17
50	One-pot Sonochemical Synthesis of Hg@Ag Alloy Microspheres from Liquid Mercury. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 157-165.	3.8	14
51	Reduction of metallic ions by molten gallium under ultrasonic irradiation and interactions between the formed metals and the gallium. <i>Journal of Alloys and Compounds</i> , 2015, 637, 538-544.	2.8	13
52	Ga Modified Zeolite Based Solid Acid Catalyst for Levulinic Acid Production. <i>ChemistrySelect</i> , 2016, 1, 5952-5960.	0.7	13
53	Enantiospecific Total Syntheses of (+)-Hapalindole H and (±)-Hapalindole U. <i>Chemistry - A European Journal</i> , 2018, 24, 8980-8984.	1.7	13
54	Development of Doped Carbon Quantum Dot-Based Nanomaterials for Lubricant Additive Applications. <i>Lubricants</i> , 2022, 10, 144.	1.2	13

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55	Topographical impact of silver nanolines on the morphology of neuronal SH-SY5Y Cells. Journal of Materials Chemistry B, 2017, 5, 9346-9353.	2.9	12
56	Element (B, N, P) doped carbon dots interaction with neural cells: promising results and future prospective. , 2019, , .		11
57	The interaction between molten gallium and the hydrocarbon medium induced by ultrasonic energy“ can gallium carbide be formed?. Journal of the American Ceramic Society, 2017, 100, 3305-3315.	1.9	10
58	Triangular Core“Shell ZnO@SiO ₂ Nanoparticles. ChemPhysChem, 2013, 14, 3215-3220.	1.0	9
59	Formation of metallic silver and copper in non-aqueous media by ultrasonic radiation. Ultrasonics Sonochemistry, 2018, 47, 108-113.	3.8	9
60	Tribological Anti-Wear and Extreme-Pressure Performance of Multifunctional Metal and Nonmetal Doped C-based Nanodots. Lubricants, 2019, 7, 36.	1.2	8
61	Physical and Biophysical Characteristics of Nanoscale Tungsten Oxide Particles and Their Interaction with Human Genomic DNA. Journal of Nanoscience and Nanotechnology, 2011, 11, 4659-4666.	0.9	7
62	Probing Spin“Spin and Spin-Lattice Relaxation Through Electron Paramagnetic Resonance Study of Nanoscale WO ₃ System. Materials Express, 2012, 2, 57-63.	0.2	7
63	Thermal and structural characterization of ultrasonicated BiSn alloy in the eutectic composition. Journal of Thermal Analysis and Calorimetry, 2015, 120, 1543-1551.	2.0	6
64	A New Approach to Chiral Enrichment by Exposure of Racemates of Amino Acids to Sonochemically“Prepared BSA Microspheres. ChemistrySelect, 2017, 2, 8234-8238.	0.7	6
65	Type-I superconductivity in carbon-coated Sn nano-spheres. Physica C: Superconductivity and Its Applications, 2018, 546, 6-10.	0.6	6
66	Enantioselective Separation of Racemic Tryptophan with Sonochemically Prepared Egg Albumin Microspheres. ChemistrySelect, 2018, 3, 4004-4008.	0.7	6
67	Stiffening of Metallic Gallium Particles by Entrapment of Organic Molecules. Crystal Growth and Design, 2017, 17, 2041-2045.	1.4	5
68	Advances in Nanotechnology based Strategies for“Synthesis of Nanoparticles of Lignin. Springer Series on Polymer and Composite Materials, 2020, , 203-229.	0.5	5
69	Surfactant-free synthesis of a water-soluble PEGylated nanographeneoxide/metal-oxide nanocomposite as engineered antimicrobial weaponry. Journal of Materials Chemistry B, 2016, 4, 6706-6715.	2.9	4
70	On the nature of the nanospikes obtained in the sonication of a molten mixture of bismuth and indium under silicone oil. Journal of Alloys and Compounds, 2016, 672, 476-480.	2.8	4
71	Facile Molecular Catalysis for Isomerization of Glucose to Fructose Using KMnO ₄ in Water. ChemistrySelect, 2020, 5, 2913-2917.	0.7	4
72	Formation of Iron (III) Trimesate Xerogel by Ultrasonic Irradiation. European Journal of Inorganic Chemistry, 0, , .	1.0	4

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73	Dispersion of Polymers in Metallic Gallium. ChemPhysChem, 2016, 17, 162-169.	1.0	3
74	AS101-Loaded PLGA-PEG Nanoparticles for Autoimmune Regulation and Chemosensitization. ACS Applied Bio Materials, 2019, 2, 2246-2251.	2.3	3
75	Cooperative crystallization effect in the formation of sonochemically grafted active materials based on polysaccharides. Colloids and Surfaces B: Biointerfaces, 2020, 190, 110931.	2.5	3
76	Functionalization of WS ₂ Nanotubes with Fluorescent Cd dots and Conductive Polythiophenes. Macromolecular Chemistry and Physics, 2019, 220, 1800476.	1.1	2
77	Size-Controlled Synthesis of L10-CoPt Intermetallic Fuel Cell Catalysts on Nitrogen-Doped Mesoporous Graphitized Carbon Support. ECS Meeting Abstracts, 2020, MA2020-01, 1623-1623.	0.0	0