Ramakrishnan Ganesan

List of Publications by Year
in descending order

76	1,675	304743 22	330143 37
papers	citations	h-index	g-index

77	77	77	2174
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biofuel generation from food waste through immobilized enzymes on magnetic nanoparticles. Materials Today: Proceedings, 2023, 72, 62-66.	1.8	6
2	Water-soluble caffeic acid-dopamine acid-base complex exhibits enhanced bactericidal, antioxidant, and anticancer properties. Food Chemistry, 2022, 374, 131830.	8.2	13
3	Enhanced antibacterial, antioxidant and anticancer activity of caffeic acid by simple acid-base complexation with spermine/spermidine. Natural Product Research, 2022, 36, 6453-6458.	1.8	5
4	Structural, Electronic and Thermoelectric Properties of Bi2Se3 Thin Films Deposited by RF Magnetron Sputtering. Journal of Electronic Materials, 2022, 51, 2500-2509.	2.2	19
5	Fluorescence-based simultaneous dual oligo sensing of HCV genotypes 1 and 3 using magnetite nanoparticles. Journal of Photochemistry and Photobiology B: Biology, 2022, 232, 112463.	3.8	3
6	Fabricating effective heterojunction in metal-organic framework-derived self-cleanable and dark/visible-light dual mode antimicrobial CuO/AgX (XÂ=ÂCl, Br, or I) nanocomposites. Chemical Engineering Journal, 2022, 446, 137363.	12.7	10
7	Review of metal-containing resists in electron beam lithography: perspectives for extreme ultraviolet patterning. Journal of Micro-nanopatterning, Materials, and Metrology, 2022, 21, .	0.8	5
8	Boronic acid chemistry for fluorescence-based quantitative DNA sensing. Chemical Communications, 2022, 58, 7936-7939.	4.1	3
9	Signature of weak-antilocalization in sputtered topological insulator Bi2Se3 thin films with varying thickness. Scientific Reports, 2022, 12, .	3.3	25
10	Anatase versus Triphasic TiO2: Near-identical synthesis and comparative structure-sensitive photocatalytic degradation of methylene blue and 4-chlorophenol. Journal of Colloid and Interface Science, 2021, 581, 205-217.	9.4	18
11	Genotyping simplified: rationally designed antisense oligonucleotide-mediated PCR amplification-free colorimetric sensing of viral RNA in HCV genotypes 1 and 3. Analyst, The, 2021, 146, 4767-4774.	3.5	5
12	Naked-eye colorimetric detection of HCV RNA mediated by a 5â€² UTR-targeted antisense oligonucleotide and plasmonic gold nanoparticles. Analyst, The, 2021, 146, 1569-1578.	3.5	11
13	Hydrogen generation rate enhancement by in situ Fe(0) and nitroarene substrates in Fe3O4@Pd catalyzed ammonia borane hydrolysis and nitroarene reduction tandem reaction. International Journal of Hydrogen Energy, 2021, 46, 25486-25499.	7.1	11
14	Lactobacillus amylovorus derived lipase-mediated silver derivatization over poly(Îµ-caprolactone) towards antimicrobial coatings. Enzyme and Microbial Technology, 2021, 150, 109888.	3.2	16
15	Sublimable xanthate-mediated solid-state synthesis of highly interspersed g-C3N4/Ag2S nanocomposites exhibiting efficient bactericidal effects both under dark and light conditions. Journal of Environmental Chemical Engineering, 2021, 9, 106065.	6.7	15
16	ZnO core-triggered nitrogen-deficient carbonaceous g-C3N4 shell enhances the visible-light-driven disinfection. Carbon Trends, 2021, 5, 100118.	3.0	11
17	Influence of citrate buffer and flash heating in enhancing the sensitivity of ratiometric genosensing of Hepatitis C virus using plasmonic gold nanoparticles. Micro and Nano Systems Letters, 2021, 9, .	3.7	3
18	Quaternized Polydopamine Coatings for Anchoring Molecularly Dispersed Broad-Spectrum Antimicrobial Silver Salts. ACS Applied Bio Materials, 2021, 4, 8396-8406.	4.6	12

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19	Probiotic lipase derived from Lactobacillus plantarum and Lactobacillus brevis for biodiesel production from waste cooking olive oil: an alternative feedstock. International Journal of Green Energy, 2020, 17, 62-70.	3.8	8
20	New gold standard: weakly capped infant Au nanoclusters with record high catalytic activity for 4-nitrophenol reduction and hydrogen generation from an ammonia boraneâ€“sodium borohydride mixture. Nanoscale Advances, 2020, 2, 5384-5395.	4.6	3
21	Room-Temperature Patterning of Nanoscale MoS₂ under an Electron Beam. ACS Applied Materials & Interfaces, 2020, 12, 16772-16781.	8.0	10
22	Highly Dispersed Nanocomposite of AgBr in g-C₃N₄ Matrix Exhibiting Efficient Antibacterial Effect on Drought-Resistant Pseudomonas putida under Dark and Light Conditions. ACS Applied Materials & Interfaces, 2020, 12, 21481-21493.	8.0	40
23	Effects of free patchy ends in ssDNA and dsDNA on gold nanoparticles in a colorimetric gene sensor for Hepatitis C virus RNA. Mikrochimica Acta, 2019, 186, 566.	5.0	14
24	Probing the surface composition effect of silver-gold alloy in SERS efficiency. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 578, 123638.	4.7	22
25	Direct solid-state synthesis of maghemite as a magnetically recoverable adsorbent for the abatement of methylene blue. Journal of Environmental Chemical Engineering, 2019, 7, 103384.	6.7	12
26	Large Scale Solid-state Synthesis of Catalytically Active Fe3O4@M (M = Au, Ag and Au-Ag alloy) Core-shell Nanostructures. Scientific Reports, 2019, 9, 6603.	3.3	29
27	Enzyme-Embedded Degradation of Poly(Îµ-caprolactone) using Lipase-Derived from Probiotic Lactobacillus plantarum. ACS Omega, 2019, 4, 2844-2852.	3.5	46
28	Substrate-enzyme affinity-based surface modification strategy for endothelial cell-specific binding under shear stress. Clinical Hemorheology and Microcirculation, 2019, 75, 1-14.	1.7	2
29	Towards single crystalline, highly monodisperse and catalytically active gold nanoparticles capped with probiotic Lactobacillus plantarum derived lipase. Applied Nanoscience (Switzerland), 2019, 9, 1101-1109.	3.1	11
30	Oxygen insensitive thiolâ€“ene photo-click chemistry for direct imprint lithography of oxides. RSC Advances, 2018, 8, 11403-11411.	3.6	27
31	Extracellular probiotic lipase capped silver nanoparticles as highly efficient broad spectrum antimicrobial agents. RSC Advances, 2018, 8, 31358-31365.	3.6	12
32	Scalable Free-Radical Polymerization Based Sol-Gel Synthesis of SrTiO₃ and its Photocatalytic Activity. ChemistrySelect, 2017, 2, 4836-4842.	1.5	5
33	TiO 2 synthesized by various routes and its role on environmental remediation and alternate energy production. Nano Structures Nano Objects, 2017, 12, 147-156.	3.5	25
34	Polymerizable solâ€“gel synthesis of nano-crystalline WO 3 and its photocatalytic Cr(VI) reduction under visible light. Advanced Powder Technology, 2017, 28, 3265-3273.	4.1	36
35	Direct Patterning of Zinc Sulfide on a Sub-10 Nanometer Scale via Electron Beam Lithography. ACS Nano, 2017, 11, 9920-9929.	14.6	26
36	Structure sensitive photocatalytic reduction of nitroarenes over TiO 2. Scientific Reports, 2017, 7, 8783.	3.3	173

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37	Effective Adsorption of Precious Metal Palladium over Polyethyleneimine-Functionalized Alumina Nanopowder and Its Reusability as a Catalyst for Energy and Environmental Applications. ACS Omega, 2017, 2, 4494-4504.	3.5	28
38	All that Glitters Is Not Gold: A Probe into Photocatalytic Nitrate Reduction Mechanism over Noble Metal Doped and Undoped TiO₂. Journal of Physical Chemistry C, 2017, 121, 27406-27416.	3.1	50
39	Lactobacillus sps. lipase mediated poly (Îµ-caprolactone) degradation. International Journal of Biological Macromolecules, 2017, 95, 126-131.	7.5	54
40	High rates of Cr(VI) photoreduction with magnetically recoverable nano-Fe 3 O 4 @Fe 2 O 3 /Al 2 O 3 catalyst under visible light. Chemical Engineering Journal, 2017, 308, 59-66.	12.7	58
41	Enzymesâ€™ action on materials: Recent trends. Journal of Cellular Biotechnology, 2016, 1, 131-144.	0.5	5
42	Large area sub-100 nm direct nanoimprinting of palladium nanostructures. RSC Advances, 2016, 6, 21940-21947.	3.6	3
43	Acrylate-based Polymerizable Solâ€“Gel Synthesis of Magnetically Recoverable TiO₂ Supported Fe₃O₄ for Cr(VI) Photoreduction in Aerobic Atmosphere. ACS Sustainable Chemistry and Engineering, 2016, 4, 974-982.	6.7	107
44	Role of solvents on photocatalytic reduction of nitroarenes by solâ€“gel synthesized TiO2/zeolite-4A. Journal of Porous Materials, 2015, 22, 1105-1110.	2.6	17
45	Multiscale Ommatidial Arrays with Broadband and Omnidirectional Antireflection and Antifogging Properties by Sacrificial Layer Mediated Nanoimprinting. ACS Nano, 2015, 9, 1305-1314.	14.6	135
46	Synthesis and characterization of reduced-graphene oxide/TiO2/Zeolite-4A: A bifunctional nanocomposite for abatement of methylene blue. Materials and Design, 2015, 86, 621-626.	7.0	48
47	Polymerizable solâ€“gel precursor mediated synthesis of TiO2 supported zeolite-4A and its photodegradation of methylene blue. Microporous and Mesoporous Materials, 2015, 211, 1-8.	4.4	57
48	Tunable daughter molds from a single Si master grating mold. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, 051601.	1.2	1
49	Local pH-Responsive Diazoketo-Functionalized Photoresist for Multicomponent Protein Patterning. ACS Applied Materials & Interfaces, 2013, 5, 10253-10259.	8.0	5
50	Large Area, Facile Oxide Nanofabrication via Step-and-Flash Imprint Lithography of Metalâ€“Organic Hybrid Resins. ACS Applied Materials & Interfaces, 2013, 5, 13113-13123.	8.0	18
51	A Universal Scheme for Patterning of Oxides via Thermal Nanoimprint Lithography. Advanced Functional Materials, 2013, 23, 2201-2211.	14.9	37
52	Direct Patterning of TiO₂ Using Step-and-Flash Imprint Lithography. ACS Nano, 2012, 6, 1494-1502.	14.6	59
53	Effect of angstrom-scale surface roughness on the self-assembly of polystyrene-polydimethylsiloxane block copolymer. Scientific Reports, 2012, 2, 617.	3.3	17
54	Direct nanoimprint lithography of Al₂O₃using a chelated monomer-based precursor. Nanotechnology, 2012, 23, 315304.	2.6	17

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55	Direct nanoimprinting of metal oxides by in situ thermal co-polymerization of their methacrylates. Journal of Materials Chemistry, 2011, 21, 4484.	6.7	23
56	Micropatterning of proteins on ion beamâ€induced poly(acrylic acid)â€grafted polyethylene film. Polymers for Advanced Technologies, 2011, 22, 1989-1992.	3.2	5
57	Nonchemically amplified resists possessing cholate moiety for micropatterning of biomolecules. Microelectronic Engineering, 2011, 88, 93-98.	2.4	4
58	Multicomponent protein patterning of material surfaces. Journal of Materials Chemistry, 2010, 20, 7322.	6.7	55
59	Photosensitive polymer brushes grafted onto PTFE film surface for micropatterning of proteins. Journal of Materials Chemistry, 2010, 20, 2007.	6.7	11
60	Patterned grafting of acrylic acid onto polymer substrates. Polymers for Advanced Technologies, 2009, 20, 173-177.	3.2	10
61	Patterned immobilization of biomolecules by using ion irradiationâ€induced graft polymerization. Journal of Polymer Science Part A, 2009, 47, 6124-6134.	2.3	18
62	Preparation of polymer/POSS nanocomposites by radiation processing. Radiation Physics and Chemistry, 2009, 78, 517-520.	2.8	24
63	Photoactive Diazoketo-Functionalized Self-Assembled Monolayer for Biomolecular Patterning. Langmuir, 2009, 25, 8888-8893.	3.5	10
64	Novel Topâ€Surface Imaging Process by Selective Chemisorption of Poly(dimethyl siloxane) on Diazoketoâ€Functionalized Single Component Photoresist. Macromolecular Rapid Communications, 2008, 29, 437-441.	3.9	6
65	Radiation-induced grafting of inorganic particles onto polymer backbone: A new method to design polymer-based nanocomposite. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 203-206.	1.4	22
66	Simple micropatterning of biomolecules on a diazoketo-functionalized photoresist. Journal of Materials Chemistry, 2008, 18, 703.	6.7	24
67	Top surface imaging study by selective chemisorptions of poly(dimethyl siloxane) on diazoketo-functionalized polymeric surface. Proceedings of SPIE, 2008, , .	0.8	0
68	Preparation of Patterned Polymer Brushes by Radiation-Induced Grafting. Journal of the Korean Physical Society, 2008, 52, 880-883.	0.7	1
69	Nonchemically amplified resists for deep-UV lithography. , 2007, 6519, 816.		1
70	Patterning of biomolecules on a biocompatible nonchemically amplified resist. , 2007, , .		0
71	Photobleachable silicon-containing molecular resist for deep UV lithography. Journal of Materials Chemistry, 2006, 16, 3448.	6.7	26
72	High Performance Molecular Resists Based on Î²-Cyclodextrin. Polymer Journal, 2006, 38, 996-998.	2.7	9

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73	Simple Patterning of Cells on a Biocompatible Nonchemically Amplified Resist. Macromolecular Rapid Communications, 2006, 27, 1442-1445.	3.9	10
74	Negative nanomolecular resists based on Calix[4]resorcinarene. , 2006, 6153, 788.		6
75	Bilayer resists based on polyhedral oligomeric silsesquioxane for 193-nm lithography. , 2005, , .		1
76	Edible Acidâ€“Base Complexes of Caffeic Acid with Histidine and Arginine Exhibit Enhanced Antimicrobial and Antioxidant Characteristics. ACS Food Science & Technology, 0, , .	2.7	1