

Ramakrishnan Ganesan

List of Publications by Year in descending order

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76
papers

1,675
citations

304743

22
h-index

330143

37
g-index

77
all docs

77
docs citations

77
times ranked

2174
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure sensitive photocatalytic reduction of nitroarenes over TiO ₂ . Scientific Reports, 2017, 7, 8783.	3.3	173
2	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
3	Acrylate-based Polymerizable Sol-gel Synthesis of Magnetically Recoverable TiO ₂ Supported Fe ₃ O ₄ for Cr(VI) Photoreduction in Aerobic Atmosphere. ACS Sustainable Chemistry and Engineering, 2016, 4, 974-982.	6.7	107
4	Direct Patterning of TiO ₂ Using Step-and-Flash Imprint Lithography. ACS Nano, 2012, 6, 1494-1502.	14.6	59
5	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
6	Polymerizable sol-gel precursor mediated synthesis of TiO ₂ supported zeolite-4A and its photodegradation of methylene blue. Microporous and Mesoporous Materials, 2015, 211, 1-8.	4.4	57
7	Multicomponent protein patterning of material surfaces. Journal of Materials Chemistry, 2010, 20, 7322.	6.7	55
8	Lactobacillus sps. lipase mediated poly (μ -caprolactone) degradation. International Journal of Biological Macromolecules, 2017, 95, 126-131.	7.5	54
9	All that Glitters Is Not Gold: A Probe into Photocatalytic Nitrate Reduction Mechanism over Noble Metal Doped and Undoped TiO ₂ . Journal of Physical Chemistry C, 2017, 121, 27406-27416.	3.1	50
10	Synthesis and characterization of reduced-graphene oxide/TiO ₂ /Zeolite-4A: A bifunctional nanocomposite for abatement of methylene blue. Materials and Design, 2015, 86, 621-626.	7.0	48
11	Enzyme-Embedded Degradation of Poly(μ -caprolactone) using Lipase-Derived from Probiotic <i>Lactobacillus plantarum</i> . ACS Omega, 2019, 4, 2844-2852.	3.5	46
12	Highly Dispersed Nanocomposite of AgBr in g-C ₃ N ₄ Matrix Exhibiting Efficient Antibacterial Effect on Drought-Resistant <i>Pseudomonas putida</i> under Dark and Light Conditions. ACS Applied Materials & Interfaces, 2020, 12, 21481-21493.	8.0	40
13	A Universal Scheme for Patterning of Oxides via Thermal Nanoimprint Lithography. Advanced Functional Materials, 2013, 23, 2201-2211.	14.9	37
14	Polymerizable sol-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
15	Large Scale Solid-state Synthesis of Catalytically Active Fe ₃ O ₄ @M (M = Au, Ag and Au-Ag alloy) Core-shell Nanostructures. Scientific Reports, 2019, 9, 6603.	3.3	29
16	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
17	Oxygen insensitive thiol-ene photo-click chemistry for direct imprint lithography of oxides. RSC Advances, 2018, 8, 11403-11411.	3.6	27
18	Photobleachable silicon-containing molecular resist for deep UV lithography. Journal of Materials Chemistry, 2006, 16, 3448.	6.7	26

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19	Direct Patterning of Zinc Sulfide on a Sub-10 Nanometer Scale via Electron Beam Lithography. ACS Nano, 2017, 11, 9920-9929.	14.6	26
20	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
21	Signature of weak-antilocalization in sputtered topological insulator Bi ₂ Se ₃ thin films with varying thickness. Scientific Reports, 2022, 12, .	3.3	25
22	Simple micropatterning of biomolecules on a diazoketo-functionalized photoresist. Journal of Materials Chemistry, 2008, 18, 703.	6.7	24
23	Preparation of polymer/POSS nanocomposites by radiation processing. Radiation Physics and Chemistry, 2009, 78, 517-520.	2.8	24
24	Direct nanoimprinting of metal oxides by in situ thermal co-polymerization of their methacrylates. Journal of Materials Chemistry, 2011, 21, 4484.	6.7	23
25	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
26	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
27	Structural, Electronic and Thermoelectric Properties of Bi ₂ Se ₃ Thin Films Deposited by RF Magnetron Sputtering. Journal of Electronic Materials, 2022, 51, 2500-2509.	2.2	19
28	Patterned immobilization of biomolecules by using ion irradiation-induced graft polymerization. Journal of Polymer Science Part A, 2009, 47, 6124-6134.	2.3	18
29	Large Area, Facile Oxide Nanofabrication via Step-and-Flash Imprint Lithography of Metal-Organic Hybrid Resins. ACS Applied Materials & Interfaces, 2013, 5, 13113-13123.	8.0	18
30	Anatase versus Triphasic TiO ₂ : 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
31	Effect of angstrom-scale surface roughness on the self-assembly of polystyrene-polydimethylsiloxane block copolymer. Scientific Reports, 2012, 2, 617.	3.3	17
32	Direct nanoimprint lithography of Al ₂ O ₃ using a chelated monomer-based precursor. Nanotechnology, 2012, 23, 315304.	2.6	17
33	Role of solvents on photocatalytic reduction of nitroarenes by sol-gel synthesized TiO ₂ /zeolite-4A. Journal of Porous Materials, 2015, 22, 1105-1110.	2.6	17
34	Lactobacillus amylovorus derived lipase-mediated silver derivatization over poly(ϵ -caprolactone) towards antimicrobial coatings. Enzyme and Microbial Technology, 2021, 150, 109888.	3.2	16
35	Sublimable xanthate-mediated solid-state synthesis of highly interspersed g-C ₃ N ₄ /Ag ₂ S nanocomposites exhibiting efficient bactericidal effects both under dark and light conditions. Journal of Environmental Chemical Engineering, 2021, 9, 106065.	6.7	15
36	Effects of free patchy ends in ssDNA and dsDNA on gold nanoparticles in a colorimetric gene sensor for Hepatitis C virus RNA. Mikrokimica Acta, 2019, 186, 566.	5.0	14

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37	Water-soluble caffeic acid-dopamine acid-base complex exhibits enhanced bactericidal, antioxidant, and anticancer properties. <i>Food Chemistry</i> , 2022, 374, 131830.	8.2	13
38	Extracellular probiotic lipase capped silver nanoparticles as highly efficient broad spectrum antimicrobial agents. <i>RSC Advances</i> , 2018, 8, 31358-31365.	3.6	12
39	Direct solid-state synthesis of maghemite as a magnetically recoverable adsorbent for the abatement of methylene blue. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103384.	6.7	12
40	Quaternized Polydopamine Coatings for Anchoring Molecularly Dispersed Broad-Spectrum Antimicrobial Silver Salts. <i>ACS Applied Bio Materials</i> , 2021, 4, 8396-8406.	4.6	12
41	Photosensitive polymer brushes grafted onto PTFE film surface for micropatterning of proteins. <i>Journal of Materials Chemistry</i> , 2010, 20, 2007.	6.7	11
42	Towards single crystalline, highly monodisperse and catalytically active gold nanoparticles capped with probiotic <i>Lactobacillus plantarum</i> derived lipase. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 1101-1109.	3.1	11
43	Naked-eye colorimetric detection of HCV RNA mediated by a 5' UTR-targeted antisense oligonucleotide and plasmonic gold nanoparticles. <i>Analyst</i> , 2021, 146, 1569-1578.	3.5	11
44	Hydrogen generation rate enhancement by in situ Fe(0) and nitroarene substrates in Fe ₃ O ₄ @Pd catalyzed ammonia borane hydrolysis and nitroarene reduction tandem reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 25486-25499.	7.1	11
45	ZnO core-triggered nitrogen-deficient carbonaceous g-C ₃ N ₄ shell enhances the visible-light-driven disinfection. <i>Carbon Trends</i> , 2021, 5, 100118.	3.0	11
46	Simple Patterning of Cells on a Biocompatible Nonchemically Amplified Resist. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1442-1445.	3.9	10
47	Patterned grafting of acrylic acid onto polymer substrates. <i>Polymers for Advanced Technologies</i> , 2009, 20, 173-177.	3.2	10
48	Photoactive Diazoketo-Functionalized Self-Assembled Monolayer for Biomolecular Patterning. <i>Langmuir</i> , 2009, 25, 8888-8893.	3.5	10
49	Room-Temperature Patterning of Nanoscale MoS ₂ under an Electron Beam. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16772-16781.	8.0	10
50	Fabricating effective heterojunction in metal-organic framework-derived self-cleanable and dark/visible-light dual mode antimicrobial CuO/AgX (X=Cl, Br, or I) nanocomposites. <i>Chemical Engineering Journal</i> , 2022, 446, 137363.	12.7	10
51	High Performance Molecular Resists Based on β -Cyclodextrin. <i>Polymer Journal</i> , 2006, 38, 996-998.	2.7	9
52	Probiotic lipase derived from <i>Lactobacillus plantarum</i> and <i>Lactobacillus brevis</i> for biodiesel production from waste cooking olive oil: an alternative feedstock. <i>International Journal of Green Energy</i> , 2020, 17, 62-70.	3.8	8
53	Negative nanomolecular resists based on Calix[4]resorcinarene. , 2006, 6153, 788.		6
54	Novel Topâ€Surface Imaging Process by Selective Chemisorption of Poly(dimethyl siloxane) on Diazoketoâ€Functionalized Single Component Photoresist. <i>Macromolecular Rapid Communications</i> , 2008, 29, 437-441.	3.9	6

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55	Biofuel generation from food waste through immobilized enzymes on magnetic nanoparticles. <i>Materials Today: Proceedings</i> , 2023, 72, 62-66.	1.8	6
56	Micropatterning of proteins on ion beam-induced poly(acrylic acid)-grafted polyethylene film. <i>Polymers for Advanced Technologies</i> , 2011, 22, 1989-1992.	3.2	5
57	Local pH-Responsive Diazoketo-Functionalized Photoresist for Multicomponent Protein Patterning. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10253-10259.	8.0	5
58	Enzymes' action on materials: Recent trends. <i>Journal of Cellular Biotechnology</i> , 2016, 1, 131-144.	0.5	5
59	Scalable Free-Radical Polymerization Based Sol-Gel Synthesis of SrTiO ₃ and its Photocatalytic Activity. <i>ChemistrySelect</i> , 2017, 2, 4836-4842.	1.5	5
60	Genotyping simplified: rationally designed antisense oligonucleotide-mediated PCR amplification-free colorimetric sensing of viral RNA in HCV genotypes 1 and 3. <i>Analyst</i> , 2021, 146, 4767-4774.	3.5	5
61	Enhanced antibacterial, antioxidant and anticancer activity of caffeic acid by simple acid-base complexation with spermine/spermidine. <i>Natural Product Research</i> , 2022, 36, 6453-6458.	1.8	5
62	Review of metal-containing resists in electron beam lithography: perspectives for extreme ultraviolet patterning. <i>Journal of Micro-nanopatterning, Materials, and Metrology</i> , 2022, 21, .	0.8	5
63	Nonchemically amplified resists possessing cholate moiety for micropatterning of biomolecules. <i>Microelectronic Engineering</i> , 2011, 88, 93-98.	2.4	4
64	Large area sub-100 nm direct nanoimprinting of palladium nanostructures. <i>RSC Advances</i> , 2016, 6, 21940-21947.	3.6	3
65	New gold standard: weakly capped infant Au nanoclusters with record high catalytic activity for 4-nitrophenol reduction and hydrogen generation from an ammonia borane-sodium borohydride mixture. <i>Nanoscale Advances</i> , 2020, 2, 5384-5395.	4.6	3
66	Influence of citrate buffer and flash heating in enhancing the sensitivity of ratiometric genosensing of Hepatitis C virus using plasmonic gold nanoparticles. <i>Micro and Nano Systems Letters</i> , 2021, 9, .	3.7	3
67	Fluorescence-based simultaneous dual oligo sensing of HCV genotypes 1 and 3 using magnetite nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022, 232, 112463.	3.8	3
68	Boronic acid chemistry for fluorescence-based quantitative DNA sensing. <i>Chemical Communications</i> , 2022, 58, 7936-7939.	4.1	3
69	Substrate-enzyme affinity-based surface modification strategy for endothelial cell-specific binding under shear stress. <i>Clinical Hemorheology and Microcirculation</i> , 2019, 75, 1-14.	1.7	2
70	Bilayer resists based on polyhedral oligomeric silsesquioxane for 193-nm lithography. , 2005, , .		1
71	Nonchemically amplified resists for deep-UV lithography. , 2007, 6519, 816.		1
72	Tunable daughter molds from a single Si master grating mold. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014, 32, 051601.	1.2	1

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73	Preparation of Patterned Polymer Brushes by Radiation-Induced Grafting. Journal of the Korean Physical Society, 2008, 52, 880-883.	0.7	1
74	Edible Acid-Base Complexes of Caffeic Acid with Histidine and Arginine Exhibit Enhanced Antimicrobial and Antioxidant Characteristics. ACS Food Science & Technology, 0, , .	2.7	1
75	Patterning of biomolecules on a biocompatible nonchemically amplified resist. , 2007, , .		0
76	Top surface imaging study by selective chemisorptions of poly(dimethyl siloxane) on diazoketo-functionalized polymeric surface. Proceedings of SPIE, 2008, , .	0.8	0