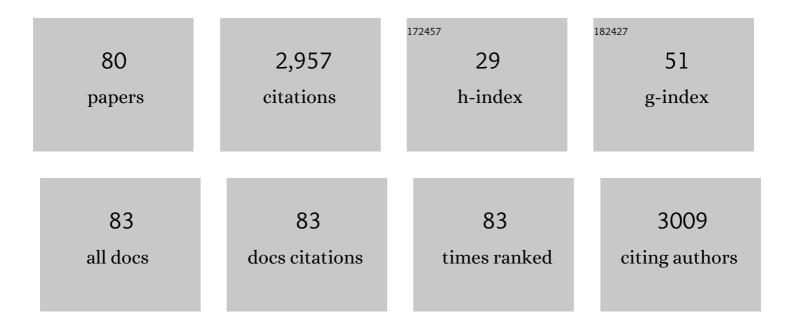
Kumar Ponnuchamy

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	<i>In silico</i> approach of naringin as potent phosphatase and tensin homolog (PTEN) protein agonist against prostate cancer. Journal of Biomolecular Structure and Dynamics, 2022, 40, 1629-1638.	3.5	24
2	Review on marine sponge alkaloid, aaptamine: A potential antibacterial and anticancer drug. Chemical Biology and Drug Design, 2022, 99, 103-110.	3.2	8
3	Ultrasensitive and direct detection of DNA and whole E. coli cell at cholesterol gold nanoparticle composite film electrode. Ionics, 2022, 28, 1973-1984.	2.4	1
4	Wastewater substrates in microbial fuel cell systems for carbon-neutral bioelectricity generation: An overview. Fuel, 2022, 317, 123369.	6.4	19
5	Green synthesis of multifunctional carbon quantum dots: An approach in cancer theranostics. , 2022, 136, 212756.		28
6	Extraction, identification, and environmental risk assessment of microplastics in commercial toothpaste. Chemosphere, 2022, 296, 133976.	8.2	25
7	The absence of cellular glucose triggers oncogene AEC-1 that instigates VEGFC in HCC: A possible genetic root cause of angiogenesis. Gene, 2022, 826, 146446.	2.2	3
8	A reign of bio-mass derived carbon with the synergy of energy storage and biomedical applications. Journal of Energy Storage, 2022, 51, 104422.	8.1	13
9	Macrocyclic "tet <i>a</i> ―Derived Cobalt(III) Complex with a <i>N</i> , <i>N</i> â€2-Disubstituted Hexadentate Ligand: Crystal Structure, Photonuclease Activity, and as a Photosensitizer. ACS Omega, 2022, 7, 669-682.	3.5	9
10	Design and evaluation of redox responsive disulfide containing resveratrol loaded nanocarrier anti-cancer activity in the MDA-MB-231 cell line. Materials Today Communications, 2022, 32, 103873.	1.9	1
11	Dark fermentative biohydrogen production from rice mill wastewater. International Journal of Energy Research, 2021, 45, 17233-17243.	4.5	16
12	Isolation, Characterization and In-Silico Study of Conotoxin Protein from Conus loroisii and Its Anti-cancer Activity. International Journal of Peptide Research and Therapeutics, 2021, 27, 385-395.	1.9	4
13	Biomedical application of single anatase phase TiO2 nanoparticles with addition of Rambutan (Nephelium lappaceumÂL.) fruit peel extract. Applied Nanoscience (Switzerland), 2021, 11, 699-708.	3.1	6
14	Green biomimetic silver nanoparticles utilizing the red algae Amphiroa rigida and its potent antibacterial, cytotoxicity and larvicidal efficiency. Bioprocess and Biosystems Engineering, 2021, 44, 217-223.	3.4	55
15	Precomposting and green manure amendment for effective vermitransformation of hazardous coir industrial waste into enriched vermicompost. Bioresource Technology, 2021, 319, 124136.	9.6	65
16	Anti-cancer applications of Zr, Co, Ni-doped ZnO thin nanoplates. Materials Letters, 2021, 283, 128760.	2.6	25
17	High performance MnSn(OH)6 electrodes for energy conversion application. Materials Letters, 2021, 282, 128888.	2.6	4
18	Effect of C/N substrates for enhanced extracellular polymeric substances (EPS) production and Poly Cyclic Aromatic Hydrocarbons (PAHs) degradation. Environmental Pollution, 2021, 275, 116035.	7.5	62

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19	Metallothionein dependent-detoxification of heavy metals in the agricultural field soil of industrial area: Earthworm as field experimental model system. Chemosphere, 2021, 267, 129240.	8.2	43
20	Assessment of earthworm diversity and pesticide toxicity in Eudrilus Eugeniae. Environmental Chemistry and Ecotoxicology, 2021, 3, 23-30.	9.1	7
21	Doxorubicin-Conjugated Platinum Theranostic Nanoparticles Induce Apoptosis <i>via</i> Inhibition of a Cell Survival (PI3K/AKT) Signaling Pathway in Human Breast Cancer Cells. ACS Applied Nano Materials, 2021, 4, 198-210.	5.0	14
22	Earthworm intervened nutrient recovery and greener production of vermicompost from Ipomoea staphylina – An invasive weed with emerging environmental challenges. Chemosphere, 2021, 263, 128080.	8.2	41
23	Extraction of microplastics from commonly used sea salts in India and their toxicological evaluation. Chemosphere, 2021, 263, 128181.	8.2	59
24	A doxorubicin–platinum conjugate system: impacts on PI3K/AKT actuation and apoptosis in breast cancer cells. RSC Advances, 2021, 11, 4818-4828.	3.6	15
25	Solvothermal synthesis of CoMoO4 nanostructures for electrochemical applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 5989-6000.	2.2	8
26	Hybrid NiO-CoO nanocomposite for high energy supercapacitor applications. Ceramics International, 2021, 47, 8486-8489.	4.8	8
27	Antifungal activity and molecular docking of phenol, 2,4-bis(1,1-dimethylethyl) produced by plant growth-promoting actinobacterium Kutzneria sp. strain TSII from mangrove sediments. Archives of Microbiology, 2021, 203, 4051-4064.	2.2	15
28	A strategy to enhance the photocatalytic efficiency of \hat{I} ±-Fe2O3. Chemosphere, 2021, 270, 129498.	8.2	41
29	Bioelectricity generation by natural microflora of septic tank wastewater (STWW) and biodegradation of persistent petrogenic pollutants by basidiomycetes fungi: An integrated microbial fuel cell system. Journal of Hazardous Materials, 2021, 412, 125228.	12.4	22
30	Orthorhombic tantalum pentoxide nanorods for electrochemical applications. Ceramics International, 2021, 47, 15253-15259.	4.8	7
31	Microwave-assisted green synthesis of ï¬,uorescent carbon quantum dots from Mexican Mint extract for Fe3+ detection and bio-imaging applications. Environmental Research, 2021, 199, 111263.	7.5	66
32	Green synthesis of Ionic liquid mediated Ytterbium oxide nanoparticles by Andrographis Paniculata leaves extract for structural, morphological and biomedical applications. Journal of Environmental Chemical Engineering, 2021, 9, 105270.	6.7	6
33	A sustainable green synthesis of functionalized biocompatible carbon quantum dots from Aloe barbadensis Miller and its multifunctional applications. Environmental Research, 2021, 200, 111414.	7.5	63
34	Surface functionalization of core-shell QDs for solar photovoltaic and anti-cancer applications. Applied Surface Science Advances, 2021, 5, 100122.	6.8	7
35	Production and characterization of biodegradable polyhydroxybutyrate by Micrococcus luteus isolated from marine environment. International Journal of Biological Macromolecules, 2021, 186, 125-134.	7.5	10
36	Transcriptional expression of miRNAs under glucose depletion/2-deoxy-d-glucose in HCC: A possible genetic footprints of angiogenesis and its hallmarks. Gene Reports, 2021, 24, 101277.	0.8	1

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#	Article	IF	CITATIONS
37	A crucial review on polycyclic aromatic Hydrocarbons - Environmental occurrence and strategies for microbial degradation. Chemosphere, 2021, 280, 130608.	8.2	144
38	Ingestion of microplastics and its potential for causing structural alterations and oxidative stress in Indian green mussel Perna viridis– A multiple biomarker approach. Chemosphere, 2021, 283, 130979.	8.2	26
39	Catechol thwarts virulent dimorphism in Candida albicans and potentiates the antifungal efficacy of azoles and polyenes. Scientific Reports, 2021, 11, 21049.	3.3	10
40	Protective efficacy of <i>Capsicum frutescens</i> fruits in pancreatic, hepatic and renal cell injury and their attenuation of oxidative stress in diabetic Wistar rats. Journal of Taibah University for Science, 2021, 15, 1232-1243.	2.5	4
41	Utilization of marine seaweed Spyridia filamentosa for silver nanoparticles synthesis and its clinical applications. Materials Letters, 2020, 263, 127244.	2.6	74
42	Anti-bacterial and anti-biofilm efficacies of bioinspired gold nanoparticles. Materials Letters, 2020, 261, 126998.	2.6	16
43	Biomimetic gold nanoparticles for its cytotoxicity and biocompatibility evidenced by fluorescence-based assays in cancer (MDA-MB-231) and non-cancerous (HEK-293) cells. Journal of Photochemistry and Photobiology B: Biology, 2020, 202, 111715.	3.8	82
44	Macrocyclic "tet a―derived colorimetric sensor for the detection of mercury cations and hydrogen sulphate anions and its bio-imaging in living cells. Journal of Photochemistry and Photobiology B: Biology, 2020, 203, 111739.	3.8	10
45	In vitro screening and in silico prediction of antifungal metabolites from rhizobacterium Achromobacter kerstersii JKP9. Archives of Microbiology, 2020, 202, 2855-2864.	2.2	14
46	Synthesis of highly active biocompatible ZrO2 nanorods using a bioextract. Ceramics International, 2020, 46, 25915-25920.	4.8	74
47	Bioengineered gold nanoparticles from marine seaweed Acanthophora spicifera for pharmaceutical uses: antioxidant, antibacterial, and anticancer activities. Bioprocess and Biosystems Engineering, 2020, 43, 2231-2242.	3.4	54
48	Cu2S electrochemical energy storage applications. AIP Conference Proceedings, 2020, , .	0.4	2
49	Cerium doped NiO nanoparticles by hydrothermal method. AIP Conference Proceedings, 2020, , .	0.4	1
50	Fluorescence microscopyâ€based analysis of apoptosis induced by platinum nanoparticles against breast cancer cells. Applied Organometallic Chemistry, 2020, 34, e5740.	3.5	13
51	Mushroom-Derived Carbon Dots for Toxic Metal Ion Detection and as Antibacterial and Anticancer Agents. ACS Applied Nano Materials, 2020, 3, 5910-5919.	5.0	146
52	Ni supported anorthic phase FeVO4 nanorods for electrochemical water oxidation. Materials Letters, 2020, 275, 128091.	2.6	4
53	Quantum dots as a promising agent to combat COVIDâ€19. Applied Organometallic Chemistry, 2020, 34, e5887.	3.5	58
54	Water-splitting application of orthorhombic molybdite α-MoO3 nanorods. Ceramics International, 2020, 46, 23218-23222.	4.8	13

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55	Selective antibacterial and apoptosis-inducing effects of hybrid gold nanoparticles – A green approach. Journal of Drug Delivery Science and Technology, 2020, 59, 101890.	3.0	11
56	Anti-proliferative and anti-migratory effects of flower-like bimetallic (Au@Pt) nanoparticles. Materials Letters, 2020, 267, 127491.	2.6	10
57	Urchin like NiCo2O4/rCO nanocomposite for high energy asymmetric storage applications. Ceramics International, 2020, 46, 16291-16297.	4.8	40
58	Synthesis of Silver Nanoparticles and their Biomedical Applications - A Comprehensive Review. Current Pharmaceutical Design, 2019, 25, 2650-2660.	1.9	167
59	Phloroglucinol-conjugated gold nanoparticles targeting mitochondrial membrane potential of human cervical (HeLa) cancer cell lines. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 219, 450-456.	3.9	13
60	Gold nanoparticles using red seaweed Gracilaria verrucosa: Green synthesis, characterization and biocompatibility studies. Process Biochemistry, 2019, 80, 58-63.	3.7	89
61	Chitosan nanopolymers: An overview of drug delivery against cancer. International Journal of Biological Macromolecules, 2019, 130, 727-736.	7.5	179
62	Explication of the Potential of 2-Hydroxy-4-Methoxybenzaldehyde in Hampering Uropathogenic Proteus mirabilis Crystalline Biofilm and Virulence. Frontiers in Microbiology, 2019, 10, 2804.	3.5	22
63	A perspective on biogenic synthesis of platinum nanoparticles and their biomedical applications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 211, 94-99.	3.9	59
64	Gold nanoparticles tethered cinnamic acid: preparation, characterization, and cytotoxic effects on MCF-7 breast cancer cell lines. Applied Nanoscience (Switzerland), 2018, 8, 1133-1138.	3.1	8
65	Proteomics analysis of crude squid ink isolated from Sepia esculenta for their antimicrobial, antibiofilm and cytotoxic properties. Microbial Pathogenesis, 2018, 116, 345-350.	2.9	16
66	Coumarin–gold nanoparticle bioconjugates: preparation, antioxidant, and cytotoxic effects against MCF-7 breast cancer cells. Applied Nanoscience (Switzerland), 2018, 8, 447-453.	3.1	14
67	Phyto-mediated synthesis of silver nanoparticles using fucoidan isolated from Spatoglossum asperum and assessment of antibacterial activities. Journal of Photochemistry and Photobiology B: Biology, 2018, 185, 117-125.	3.8	80
68	Cytotoxicity of phloroglucinol engineered silver (Ag) nanoparticles against MCF-7 breast cancer cell lines. Materials Chemistry and Physics, 2018, 220, 402-408.	4.0	29
69	Metal nanoparticles from marine seaweeds – a review. Nanotechnology Reviews, 2016, 5, .	5.8	28
70	Single and double chain surfactant–cobalt(<scp>iii</scp>) complexes: the impact of hydrophobicity on the interaction with calf thymus DNA, and their biological activities. RSC Advances, 2015, 5, 31746-31758.	3.6	46
71	Unraveling the caspase-mediated mechanism for phloroglucinol-encapsulated starch biopolymer against the breast cancer cell line MDA-MB-231. RSC Advances, 2014, 4, 46157-46163.	3.6	34
72	Study of single and double chain surfactant–cobalt(<scp>iii</scp>) complexes and their hydrophobicity, micelle formation, interaction with serum albumins and antibacterial activities. Inorganic Chemistry Frontiers, 2014, 1, 393-404.	6.0	43

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#	Article	IF	CITATIONS
73	Phloroglucinol-encapsulated starch biopolymer: preparation, antioxidant and cytotoxic effects on HepG2 liver cancer cell lines. RSC Advances, 2014, 4, 26787.	3.6	36
74	Seaweed-mediated biosynthesis of silver nanoparticles using Gracilaria corticata for its antifungal activity against Candida spp Applied Nanoscience (Switzerland), 2013, 3, 495-500.	3.1	124
75	GC–MS profiling and antibacterial activity of Sargassum tenerrimum. Journal of Pharmacy Research, 2013, 6, 88-92.	0.4	5
76	Photocatalytic degradation of methyl orange dye using silver (Ag) nanoparticles synthesized from Ulva lactuca. Colloids and Surfaces B: Biointerfaces, 2013, 103, 658-661.	5.0	247
77	Green Simplistic Biosynthesis of Anti-Bacterial Silver Nanoparticles Using Annona Squamosa Leaf Extract. Nano Biomedicine and Engineering, 2013, 5, .	0.9	12
78	Synthesis of Silver Nanoparticles from Sargassum Tenerrimum and Screening Phytochemicals for Its Antibacterial Activity. Nano Biomedicine and Engineering, 2012, 4, .	0.9	80
79	In vitro anti-biofilm and anti-bacterial activity of Junceella juncea for its biomedical application. Asian Pacific Journal of Tropical Biomedicine, 2012, 2, 930-935.	1.2	17
80	16S rRNA based identification of Aeromonas sp. kumar by constructing phylogenetic tree and identification of regulatory elements from the harmful Red Tide bloom, Gulf of Mannar. Nature Precedings, 2009, , .	0.1	0