

# Dharmarajan Rajarathnam

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

2,391  
citations

471509

17  
h-index

206112

48  
g-index

53  
all docs

53  
docs citations

53  
times ranked

3623  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailored titanium dioxide photocatalysts for the degradation of organic dyes in wastewater treatment: A review. <i>Applied Catalysis A: General</i> , 2009, 359, 25-40.	4.3	932
2	Pesticides in the urban environment: A potential threat that knocks at the door. <i>Science of the Total Environment</i> , 2020, 711, 134612.	8.0	234
3	Remediation of hexavalent chromium through adsorption by bentonite based Arquad® 2HT-75 organoclays. <i>Journal of Hazardous Materials</i> , 2010, 183, 87-97.	12.4	135
4	Controversies over human health and ecological impacts of glyphosate: Is it to be banned in modern agriculture?. <i>Environmental Pollution</i> , 2020, 263, 114372.	7.5	116
5	Polyamide-imide nanofiltration hollow fiber membranes with elongation-induced nanopore evolution. <i>AIChE Journal</i> , 2010, 56, 1481-1494.	3.6	82
6	Removal of doxorubicin hydrochloride using Fe <sub>3</sub> O <sub>4</sub> nanoparticles synthesized by euphorbia cochinchinensis extract. <i>Chemical Engineering Journal</i> , 2018, 353, 482-489.	12.7	77
7	Enhanced super-hydrophobic and switching behavior of ZnO nanostructured surfaces prepared by simple solution "Immersion successive ionic layer adsorption and reaction process. <i>Journal of Colloid and Interface Science</i> , 2011, 363, 51-58.	9.4	76
8	Gold nanoparticle-based optical sensors for selected anionic contaminants. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 86, 143-154.	11.4	69
9	Trace element dynamics of biosolids-derived microbeads. <i>Chemosphere</i> , 2018, 199, 331-339.	8.2	61
10	Use of mixed wastewaters from piggery and winery for nutrient removal and lipid production by <i>Chlorella</i> sp. MM3. <i>Bioresource Technology</i> , 2018, 256, 254-258.	9.6	60
11	Enhanced adsorption and Fenton oxidation of 2,4-dichlorophenol in aqueous solution using organobentonite supported nZVI. <i>Separation and Purification Technology</i> , 2018, 197, 401-406.	7.9	51
12	Sorption, kinetics and thermodynamics of phosphate sorption onto soybean stover derived biochar. <i>Environmental Technology and Innovation</i> , 2017, 8, 113-125.	6.1	49
13	Recent Progress in the Abatement of Hazardous Pollutants Using Photocatalytic TiO <sub>2</sub> -Based Building Materials. <i>Nanomaterials</i> , 2020, 10, 1854.	4.1	44
14	Photocatalytic degradation of azo dye acid orange 7 using different light sources over Fe <sup>3+</sup> -doped TiO <sub>2</sub> nanocatalysts. <i>Environmental Technology and Innovation</i> , 2018, 12, 27-42.	6.1	43
15	Characterization and reactivity of iron based nanoparticles synthesized by tea extracts under various atmospheres. <i>Chemosphere</i> , 2017, 169, 413-417.	8.2	36
16	Movement and Fate of 2,4-D in Urban Soils: A Potential Environmental Health Concern. <i>ACS Omega</i> , 2020, 5, 13287-13295.	3.5	28
17	Synthesis of 16-Mercaptohexadecanoic acid capped gold nanoparticles and their immobilization on a substrate. <i>Materials Letters</i> , 2012, 67, 315-319.	2.6	18
18	Gold nanoparticle immobilization on ZnO nanorods via bi-functional monolayers: A facile method to tune interface properties. <i>Surface Science</i> , 2015, 641, 23-29.	1.9	17

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19	Enhanced degradation of malachite by iron nanoparticles encapsulated in sodium alginate beads. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 238-242.	5.8	16
20	Enhanced luminescence and charge separation in polythiophene-grafted, gold nanoparticle-decorated, 1-D ZnO nanorods. <i>RSC Advances</i> , 2014, 4, 11288.	3.6	15
21	Determination of Total Petroleum Hydrocarbons in Australian Groundwater Through the Improved Gas Chromatography-Flame Ionization Detection Technique. <i>Journal of Chromatographic Science</i> , 2017, 55, 775-783.	1.4	15
22	Total oxidisable precursor assay towards selective detection of PFAS in AFFF. <i>Journal of Cleaner Production</i> , 2021, 328, 129568.	9.3	15
23	Investigations of adsorption states of protium and deuterium in redeposited carbon flakes formed in tokamak T-10. <i>Journal of Nuclear Materials</i> , 2008, 376, 152-159.	2.7	14
24	Synthesis of short chain thiol capped gold nanoparticles, their stabilization and immobilization on silicon surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 390, 149-156.	4.7	13
25	Spectroscopic studies of homogeneous thin carbon erosion films on mirrors and flakes with a high deuterium content formed in tokamak T-10. <i>Fusion Engineering and Design</i> , 2005, 75-79, 339-344.	1.9	12
26	Temperature and spectroscopic characteristics of homogeneous co-deposited carbon-deuterium films produced in the T-10 tokamak. <i>Plasma Devices and Operations</i> , 2006, 14, 137-157.	0.6	12
27	Study of microimpurities and charge states in homogeneous hydrocarbon films (Redeposited from a Tj ETQq1 1 0.784314 rgBT /Over characteristics. <i>Journal of Surface Investigation</i> , 2008, 2, 826-835.	0.5	12
28	Growth specificity of vertical ZnO nanorods on patterned seeded substrates through integrated chemical process. <i>Materials Chemistry and Physics</i> , 2012, 133, 126-134.	4.0	10
29	Divalent cations impacting on Fenton-like oxidation of amoxicillin using nZVI as a heterogeneous catalyst. <i>Separation and Purification Technology</i> , 2017, 188, 548-552.	7.9	10
30	Formation of polythiophene multilayers on solid surfaces by covalent molecular assembly. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 168, 45-54.	3.5	9
31	Effects of thermal treatments on the characterisation and utilisation of red mud with sawdust additive. <i>Waste Management and Research</i> , 2016, 34, 518-526.	3.9	9
32	Core-Shell Interface-Oriented Synthesis of Bowl-Structured Hollow Silica Nanospheres Using Self-Assembled ABC Triblock Copolymeric Micelles. <i>Langmuir</i> , 2018, 34, 13584-13596.	3.5	9
33	Simultaneous determination of 20 disperse dyes in foodstuffs by ultra high performance liquid chromatography-tandem mass spectrometry. <i>Food Chemistry</i> , 2019, 300, 125183.	8.2	9
34	Remote Monitoring of a Multi-Component Liquid-Phase Organic Synthesis by Infrared Emission Spectroscopy: The Recovery of Pure Component Emissivities by Band-Target Entropy Minimization. <i>Applied Spectroscopy</i> , 2007, 61, 1057-1062.	2.2	8
35	Adsorption states of protium and deuterium in redeposited polymer hydrocarbon films from a T-10 tokamak. <i>Journal of Surface Investigation</i> , 2009, 3, 420-428.	0.5	8
36	Sorption-desorption of dimethoate in urban soils and potential environmental impacts. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 2256-2265.	3.5	8

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37	Structure-reactivity correlation in the aminolysis of 4-fluorophenyl acetate in aqueous medium. <i>International Journal of Chemical Kinetics</i> , 2002, 34, 366-373.	1.6	7
38	Application of infrared spectrum for rapid classification of dominant petroleum hydrocarbon fractions for contaminated site assessment. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 207, 183-188.	3.9	7
39	Nano-scale structural features of stratified hydrocarbon films formed at interaction of plasma with surface in T-10 tokamak. <i>Journal of Nuclear Materials</i> , 2011, 415, S266-S269.	2.7	6
40	Perfluorooctanoic acid (PFOA) induces behavioural, reproductive and developmental toxicological impacts in <i>Caenorhabditis elegans</i> at concentrations relevant to the contaminated areas. <i>Environmental Advances</i> , 2021, 4, 100053.	4.8	6
41	A linear Brønsted-type behavior in the aminolysis of substituted naphthyl acetates. <i>International Journal of Chemical Kinetics</i> , 2001, 33, 157-164.	1.6	5
42	Polymerization of 4-methylpentene-1 using homogeneous Ziegler-Natta type catalysts: a kinetic study. <i>European Polymer Journal</i> , 2002, 38, 1055-1063.	5.4	5
43	Mechanistic change in the reactivity of substituted phenyl acetates over phenyl thiolacetates toward imidazole in aqueous phase. <i>International Journal of Chemical Kinetics</i> , 2005, 37, 211-221.	1.6	4
44	Application of Band-Target Entropy Minimization to Infrared Emission Spectroscopy and the Reconstruction of Pure Component Emissivities from Thin Films and Liquid Samples. <i>Applied Spectroscopy</i> , 2006, 60, 521-528.	2.2	4
45	Synthesis and Controlled Growth of ZnO Nanorods Based Hybrid Device Structure by Aqueous Chemical Method. <i>Advanced Materials Research</i> , 2010, 123-125, 779-782.	0.3	4
46	Fabrication of molecular hybrid films of gold nanoparticle and polythiophene by covalent assembly. <i>Thin Solid Films</i> , 2015, 589, 238-245.	1.8	4
47	Enhanced reactivity in the ammonolysis of phenyl thiolacetates in aqueous medium. <i>International Journal of Chemical Kinetics</i> , 2002, 34, 18-26.	1.6	3
48	Spectroscopic investigations of smooth hydrocarbon deuterated erosion flakes deposited from tokamak T-10 deuterium plasma discharge. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 543, 225-228.	1.6	1
49	Studies of nanostructures formed in T-10 tokamak. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 23, 012008.	0.6	1
50	Improved method for the determination of polycyclic aromatic hydrocarbons in contaminated groundwater and soil samples at trace levels employing GC-MSD technique. <i>Environmental Technology and Innovation</i> , 2017, 8, 218-232.	6.1	1
51	Leachate performance of silica fume-modified compacted clayey soil. <i>Journal of Chromatography &amp; Separation Techniques</i> , 2016, 07, .	0.2	1
52	Investigation of kinetics of 4-methylpentene-1 polymerization using Ziegler-Natta-type catalysts. <i>Journal of Applied Polymer Science</i> , 2003, 88, 2468-2477.	2.6	0
53	Development and application of high-performance ion conducting membrane for vanadium flow battery. <i>Journal of Chromatography &amp; Separation Techniques</i> , 2017, 08, .	0.2	0