

# Aruliah Rajasekar

## List of Publications by Year in descending order

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Version: 2024-02-01

104  
papers

3,737  
citations

109137

35  
h-index

161609

54  
g-index

107  
all docs

107  
docs citations

107  
times ranked

3130  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced biological nitrate removal by gC3N4/TiO2 composite and role of extracellular polymeric substances. <i>Environmental Research</i> , 2022, 207, 112158.	3.7	13
2	Characterization of bacterial community in oil-contaminated soil and its biodegradation efficiency of high molecular weight (>C40) hydrocarbon. <i>Chemosphere</i> , 2022, 289, 133168.	4.2	28
3	Macrolepiota-mediated synthesized silver nanoparticles as a green corrosive inhibitor for mild steel in re-circulating cooling water system. <i>Bioprocess and Biosystems Engineering</i> , 2022, 45, 493-501.	1.7	4
4	Phytosynthesis of silver nanoparticles from <i>Jatropha integerrima</i> Jacq. flower extract and their possible applications as antibacterial and antioxidant agent. <i>Saudi Journal of Biological Sciences</i> , 2022, 29, 680-688.	1.8	28
5	Characterization of two novel strains of <i>Pseudomonas aeruginosa</i> on biodegradation of crude oil and its enzyme activities. <i>Environmental Pollution</i> , 2022, 304, 119223.	3.7	39
6	Detection of Neonicotinoids in agriculture soil and degradation of thiacloprid through photo degradation, biodegradation and photo-biodegradation. <i>Environmental Pollution</i> , 2022, 306, 119452.	3.7	12
7	Evaluation of crude methanolic mangrove leaves extract for antibiofilm efficacy against biofilm-forming bacteria on a cooling tower wastewater system. <i>Arabian Journal of Chemistry</i> , 2022, , 103948.	2.3	4
8	Integrated approach of photo-assisted electrochemical oxidation and sequential biodegradation of textile effluent. <i>Environmental Pollution</i> , 2022, 307, 119412.	3.7	6
9	Impact of biosurfactant and iron nanoparticles on biodegradation of polyaromatic hydrocarbons (PAHs). <i>Environmental Pollution</i> , 2022, 306, 119384.	3.7	28
10	Impact of Light and Temperature on Growth, Intracellular and Extracellular Pigment, and Lovastatin Yield by <i>Monascus ruber</i> in Synthetic Medium. <i>Advances in Materials Science and Engineering</i> , 2022, 1-6.	1.0	2
11	Intimately coupled gC3N4 photocatalysis and mixed culture biofilm enhanced detoxification of sulfamethoxazole: Elucidating degradation mechanism and toxicity assessment. <i>Environmental Research</i> , 2022, 214, 113824.	3.7	8
12	Biosurfactant mediated bioelectrokinetic remediation of diesel contaminated environment. <i>Chemosphere</i> , 2021, 264, 128377.	4.2	36
13	Bio-electrokinetic remediation of crude oil contaminated soil enhanced by bacterial biosurfactant. <i>Journal of Hazardous Materials</i> , 2021, 405, 124061.	6.5	62
14	Biological mediated synthesis of RGO-ZnO composites with enhanced photocatalytic and antibacterial activity. <i>Journal of Hazardous Materials</i> , 2021, 409, 124661.	6.5	39
15	Microbial influenced corrosion of processing industry by re-circulating waste water and its control measures - A review. <i>Chemosphere</i> , 2021, 265, 129075.	4.2	45
16	Bacterial community analysis of biofilm on API 5LX carbon steel in an oil reservoir environment. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 355-368.	1.7	14
17	Biogenic Nanoparticles and Strategies of Nano-bioremediation to Remediate PAHs for a Sustainable Future. , 2021, , 317-337.		1
18	Facile synthesis of reduced graphene oxide using <i>Acalypha indica</i> and <i>Raphanus sativus</i> extracts and their in vitro cytotoxicity activity against human breast (MCF-7) and lung (A549) cancer cell lines. <i>3 Biotech</i> , 2021, 11, 157.	1.1	12

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19	Evaluation of <i>Syzygium aromaticum</i> aqueous extract as an eco-friendly inhibitor for microbiologically influenced corrosion of carbon steel in oil reservoir environment. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 1441-1452.	1.7	12
20	Wettability Alteration of the Oil-Wet Carbonate by Viscosity-Augmented Guar Galactomannan for Enhanced Oil Recovery. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1983-1994.	2.0	11
21	Biologically reduced graphene oxide as a green and easily available photocatalyst for degradation of organic dyes. <i>Environmental Research</i> , 2021, 196, 110983.	3.7	51
22	Metagenomic analysis of microbial community and its role in bioelectrokinetic remediation of tannery contaminated soil. <i>Journal of Hazardous Materials</i> , 2021, 412, 125133.	6.5	35
23	Fluorescence spectroscopy as a novel technique for premarital screening of sickle cell disorders. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 34, 102276.	1.3	4
24	<i>Glycyrrhiza glabra</i> extract as an eco-friendly inhibitor for microbiologically influenced corrosion of API 5LX carbon steel in oil well produced water environments. <i>Journal of Molecular Liquids</i> , 2021, 333, 115952.	2.3	24
25	Characterization of methanolic extract of seaweeds as environmentally benign corrosion inhibitors for mild steel corrosion in sodium chloride environment. <i>Journal of Molecular Liquids</i> , 2021, 340, 117011.	2.3	16
26	Characterization of crude oil degrading bacterial communities and their impact on biofilm formation. <i>Environmental Pollution</i> , 2021, 286, 117556.	3.7	25
27	Enhanced biodegradation of hydrophobic organic pollutants by the bacterial consortium: Impact of enzymes and biosurfactants. <i>Environmental Pollution</i> , 2021, 289, 117956.	3.7	60
28	Effect of crude methanolic extract of <i>Lawsonia inermis</i> for anti-biofilm on mild steel 1010 and its effect on corrosion in a re-circulating wastewater system. <i>Journal of King Saud University - Science</i> , 2021, 33, 101611.	1.6	6
29	Use of Industrial Wastes as Sustainable Nutrient Sources for Bacterial Cellulose (BC) Production: Mechanism, Advances, and Future Perspectives. <i>Polymers</i> , 2021, 13, 3365.	2.0	67
30	Characterization of biospheric bacterial community on reduction and removal of chromium from tannery contaminated soil using an integrated approach of bio-enhanced electrokinetic remediation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106602.	3.3	11
31	Characterization of active lead molecules from <i>Lissocarinus orbicularis</i> with potential antimicrobial resistance inhibition properties. <i>Journal of Infection and Public Health</i> , 2021, 14, 1903-1910.	1.9	3
32	Biofilm formation on copper and its control by inhibitor/biocide in cooling water environment. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 7588-7594.	1.8	7
33	Standardization of an in-house multiplex real-time polymerase chain reaction for the simultaneous detection of <i>Toxoplasma gondii</i> , Rubella virus, cytomegalovirus, herpes simplex Virus 1 and 2, and <i>Treponema pallidum</i> infection among pregnant women. <i>Indian Journal of Public Health</i> , 2021, 65, 369.	0.3	1
34	Electrokinetic (EK) and Bio-electrokinetic (BEK) Remediation of Hexavalent Chromium in Contaminated Soil Using Alkalophilic Bio-anolyte. <i>Indian Geotechnical Journal</i> , 2020, 50, 330-338.	0.7	14
35	Biocorrosion inhibition of Cu70:Ni30 by <i>Bacillus subtilis</i> strain S1X and <i>Pseudomonas aeruginosa</i> strain ZK biofilms. <i>Journal of Basic Microbiology</i> , 2020, 60, 243-252.	1.8	8
36	Ureolytic bacteria mediated synthesis of hairy ZnO nanostructure as photocatalyst for decolorization of dyes. <i>Materials Chemistry and Physics</i> , 2020, 243, 122619.	2.0	50

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37	Anti-bacterial and anti-biofilm properties of green-synthesized copper nanoparticles from <i>Cardiospermum halicacabum</i> leaf extract. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 1649-1657.	1.7	52
38	Bio-approach synthesis of nanosilver impregnation on calcium hydroxyapatite by biological activated ammonia from urinary waste. <i>Arabian Journal of Chemistry</i> , 2020, 13, 5878-5889.	2.3	7
39	<i>Bacillus megaterium</i> -induced biocorrosion on mild steel and the effect of <i>Artemisia pallens</i> -methanolic extract as a natural corrosion inhibitor. <i>Archives of Microbiology</i> , 2020, 202, 2311-2321.	1.0	18
40	Novel synthesis of ZnO by Ice-cube method for photo-inactivation of <i>E. coli</i> . <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 1130-1138.	1.8	9
41	Bioreduction of hexavalent chromium by chromium resistant alkalophilic bacteria isolated from tannery effluent. <i>Journal of King Saud University - Science</i> , 2020, 32, 1969-1977.	1.6	30
42	Insecticidal Activity of Nanoparticles and Mechanism of Action. , 2020, , 243-266.		5
43	Sequential electrochemical oxidation and bio-treatment of the azo dye congo red and textile effluent. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 200, 111655.	1.7	111
44	Myco-Synthesis of Zinc Oxide Nanoparticles as Potent Anti-corrosion of Copper in Cooling Towers. <i>Journal of Cluster Science</i> , 2019, 30, 1583-1590.	1.7	13
45	Integrated Remediation Processes Toward Heavy Metal Removal/Recovery From Various Environments-A Review. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	241
46	Effect of nano-zerovalent iron incorporated polyvinyl-alginate hybrid hydrogel matrix on inhibition of corrosive bacteria in a cooling tower water environment. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	7
47	Role of thermophilic bacteria ( <i>Bacillus</i> and <i>Geobacillus</i> ) on crude oil degradation and biocorrosion in oil reservoir environment. <i>3 Biotech</i> , 2019, 9, 79.	1.1	24
48	Impact and Role of Bacterial Communities on Biocorrosion of Metals Used in the Processing Industry. <i>ACS Omega</i> , 2019, 4, 21353-21360.	1.6	27
49	Role of 2-mercaptopyridine on control of microbial influenced corrosion of copper CW024A metal in cooling water system. <i>Chemosphere</i> , 2019, 222, 611-618.	4.2	28
50	Glycolipid biosurfactant as an eco-friendly microbial inhibitor for the corrosion of carbon steel in vulnerable corrosive bacterial strains. <i>Journal of Molecular Liquids</i> , 2018, 261, 473-479.	2.3	52
51	Bismuth Oxide Nanoflakes Showed Toxicity Against the Malaria Vector <i>Anopheles stephensi</i> and In Vivo Antiplasmodial Activity. <i>Journal of Cluster Science</i> , 2018, 29, 337-344.	1.7	7
52	Treatment of soak liquor and bioelectricity generation in dual chamber microbial fuel cell. <i>Environmental Science and Pollution Research</i> , 2018, 25, 11424-11430.	2.7	12
53	Control of corrosive bacterial community by bronopol in industrial water system. <i>3 Biotech</i> , 2018, 8, 55.	1.1	13
54	Characterization of hydrocarbon degrading bacteria isolated from Indian crude oil reservoir and their influence on biocorrosion of carbon steel API 5LX. <i>International Biodeterioration and Biodegradation</i> , 2018, 129, 67-80.	1.9	43

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55	Biocorrosion of mild steel and copper used in cooling tower water and its control. 3 Biotech, 2018, 8, 178.	1.1	15
56	Sargassum wightii -synthesized ZnO nanoparticles reduce the fitness and reproduction of the malaria vector Anopheles stephensi and cotton bollworm Helicoverpa armigera. Physiological and Molecular Plant Pathology, 2018, 101, 202-213.	1.3	68
57	Iron and iron oxide nanoparticles are highly toxic to Culex quinquefasciatus with little non-target effects on larvivorous fishes. Environmental Science and Pollution Research, 2018, 25, 10504-10514.	2.7	33
58	Poly(Styrene Sulfonate)/Poly(Allylamine Hydrochloride) Encapsulation of TiO <sub>2</sub> Nanoparticles Boosts Their Toxic and Repellent Activity Against Zika Virus Mosquito Vectors. Journal of Cluster Science, 2018, 29, 27-39.	1.7	11
59	Biosurfactants produced by Bacillus subtilis A1 and Pseudomonas stutzeri NA3 reduce longevity and fecundity of Anopheles stephensi and show high toxicity against young instars. Environmental Science and Pollution Research, 2018, 25, 10471-10481.	2.7	31
60	Managing wastes as green resources: cigarette butt-synthesized pesticides are highly toxic to malaria vectors with little impact on predatory copepods. Environmental Science and Pollution Research, 2018, 25, 10456-10470.	2.7	24
61	Bioengineered silver nanoparticles as potent anti-corrosive inhibitor for mild steel in cooling towers. Environmental Science and Pollution Research, 2018, 25, 5412-5420.	2.7	38
62	Allium sativum (garlic extract) as a green corrosion inhibitor with biocidal properties for the control of MIC in carbon steel and stainless steel in oilfield environments. International Biodeterioration and Biodegradation, 2018, 132, 66-73.	1.9	77
63	A statistical approach of zinc remediation using acidophilic bacterium via an integrated approach of bioleaching enhanced electrokinetic remediation (BEER) technology. Chemosphere, 2018, 207, 753-763.	4.2	29
64	Airborne bacteria associated with corrosion of mild steel 1010 and aluminum alloy 1100. Environmental Science and Pollution Research, 2017, 24, 8120-8136.	2.7	25
65	Organic-inorganic hybrid fluorescent sensor thin films of rhodamine B embedded Ag-SBA15 for selective recognition of Hg (II) ions in water. Chinese Chemical Letters, 2017, 28, 1399-1405.	4.8	18
66	Electrochemical decolorization of methyl red by RuO <sub>2</sub> -IrO <sub>2</sub> -TiO <sub>2</sub> electrode and biodegradation with Pseudomonas stutzeri MN1 and Acinetobacter baumannii MN3: An integrated approach. Chemosphere, 2017, 183, 204-211.	4.2	31
67	Solution Combustion Synthesis of Hierarchically Structured V <sub>2</sub> O <sub>5</sub> Nanoflakes: Efficacy Against Plasmodium falciparum, Plasmodium berghei and the Malaria Vector Anopheles stephensi. Journal of Cluster Science, 2017, 28, 2337-2348.	1.7	9
68	Neem extract as a green inhibitor for microbiologically influenced corrosion of carbon steel API 5LX in a hypersaline environments. Journal of Molecular Liquids, 2017, 240, 121-127.	2.3	98
69	Green-synthesized CdS nano-pesticides: Toxicity on young instars of malaria vectors and impact on enzymatic activities of the non-target mud crab Scylla serrata. Aquatic Toxicology, 2017, 188, 100-108.	1.9	40
70	Influence of Thermophilic Bacteria on Corrosion of Carbon Steel in Hyper Chloride Environment. International Journal of Environmental Research, 2017, 11, 339-347.	1.1	16
71	Biocorrosion and Its Impact on Carbon Steel API 5LX by Bacillus subtilis A1 and Bacillus cereus A4 Isolated From Indian Crude Oil Reservoir. Journal of Bio- and Tribo-Corrosion, 2017, 3, 1.	1.2	25
72	Ginger extract as green biocide to control microbial corrosion of mild steel. 3 Biotech, 2017, 7, 133.	1.1	41

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73	Biodecolourization of textile dyes by novel, indigenous <i>Pseudomonas stutzeri</i> MN1 and <i>Acinetobacter baumannii</i> MN3. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 716-724.	3.3	56
74	Role of calcium-depositing bacteria <i>Agrobacterium tumefaciens</i> and its influence on corrosion of different engineering metals used in cooling water system. <i>3 Biotech</i> , 2017, 7, 374.	1.1	5
75	An anticorrosive study on potential bioactive compound produced by <i>Pseudomonas aeruginosa</i> TBH2 against the biocorrosive bacterial biofilm on copper metal. <i>Journal of Molecular Liquids</i> , 2017, 243, 706-713.	2.3	25
76	Electrochemical decolorization and biodegradation of tannery effluent for reduction of chemical oxygen demand and hexavalent chromium. <i>Journal of Water Process Engineering</i> , 2017, 20, 22-28.	2.6	53
77	Biosurfactant and enzyme mediated crude oil degradation by <i>Pseudomonas stutzeri</i> NA3 and <i>Acinetobacter baumannii</i> MN3. <i>3 Biotech</i> , 2017, 7, 278.	1.1	39
78	A sensitive optical sensor based on DNA-labelled $\text{Si}@\text{SiO}_2$ core-shell nanoparticle for the detection of. <i>Bulletin of Materials Science</i> , 2017, 40, 1455-1462.	0.8	18
79	Enzyme-mediated biodegradation of long-chain n-alkanes (C32 and C40) by thermophilic bacteria. <i>3 Biotech</i> , 2017, 7, 116.	1.1	35
80	Biodegradation of Petroleum Hydrocarbon and Its Influence on Corrosion with Special Reference to Petroleum Industry. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2017, , 307-336.	0.7	7
81	Bioreduction of hexavalent chromium by <i>Pseudomonas stutzeri</i> L1 and <i>Acinetobacter baumannii</i> L2. <i>Annals of Microbiology</i> , 2017, 67, 91-98.	1.1	57
82	Biosurfactant and Degradative Enzymes Mediated Crude Oil Degradation by Bacterium <i>Bacillus subtilis</i> A1. <i>Frontiers in Microbiology</i> , 2017, 8, 193.	1.5	178
83	Role of Bacterial Plasmid on Biofilm Formation and Its Influence on Corrosion of Engineering Materials. <i>Journal of Bio- and Tribo-Corrosion</i> , 2016, 2, 1.	1.2	22
84	Bioremediation of heavy metals using an endophytic bacterium <i>Paenibacillus</i> sp. RM isolated from the roots of <i>Tridax procumbens</i> . <i>3 Biotech</i> , 2016, 6, 242.	1.1	100
85	Role of <i>Bacillus subtilis</i> and <i>Pseudomonas aeruginosa</i> on Corrosion Behaviour of Stainless Steel. <i>Arabian Journal for Science and Engineering</i> , 2015, 40, 1825-1836.	1.1	33
86	Bio-Oxidation and Biocyanidation of Refractory Mineral Ores for Gold Extraction: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 1611-1643.	6.6	36
87	Characterization of Corrosive Bacterial Consortia Isolated from Water in a Cooling Tower. <i>ISRN Corrosion</i> , 2014, 2014, 1-11.	0.3	22
88	Airborne bacteria, fungi, and endotoxin levels in residential microenvironments: a case study. <i>Aerobiologia</i> , 2012, 28, 375-390.	0.7	50
89	BIOLEACHING OF COPPER FROM BLACK SHALE ORE USING MESOPHILIC MIXED POPULATIONS IN AN AIR UP-LIFT BIOREACTOR. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 1839-1848.	0.2	7
90	Role of Hydrocarbon Degrading Bacteria <i>Serratia marcescens</i> ACE2 and <i>Bacillus cereus</i> ACE4 on Corrosion of Carbon Steel API 5LX. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 10041-10046.	1.8	28

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91	Role of Inorganic and Organic Medium in the Corrosion Behavior of <i>Bacillus megaterium</i> and <i>Pseudomonas</i> sp. in Stainless Steel SS 304. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 12534-12541.	1.8	56
92	Inhibition of Biocorrosion of Aluminum 2024 Aeronautical Alloy by Conductive Ladder Polymer Poly( <i>o</i> -phenylenediamine). <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 2040-2046.	1.8	33
93	Bacteria attachment to surfaces – AFM force spectroscopy and physicochemical analyses. <i>Journal of Colloid and Interface Science</i> , 2011, 364, 213-218.	5.0	93
94	Assessment of airborne bacteria and fungi in food courts. <i>Building and Environment</i> , 2011, 46, 2081-2087.	3.0	75
95	Characterization of corrosive bacterial consortia isolated from petroleum-product-transporting pipelines. <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 1175-1188.	1.7	154
96	Microbial Corrosion of Aluminum 2024 Aeronautical Alloy by Hydrocarbon Degrading Bacteria <i>Bacillus cereus</i> ACE4 and <i>Serratia marcescens</i> ACE2. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 6054-6061.	1.8	76
97	Electrochemical Behavior of <i>Serratia marcescens</i> ACE2 on Carbon Steel API 5L-X60 in Organic/Aqueous Phase. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 6925-6932.	1.8	25
98	Biodegradation and corrosion behavior of manganese oxidizer <i>Bacillus cereus</i> ACE4 in diesel transporting pipeline. <i>Corrosion Science</i> , 2007, 49, 2694-2710.	3.0	85
99	Biodegradation of corrosion inhibitors and their influence on petroleum product pipeline. <i>Microbiological Research</i> , 2007, 162, 355-368.	2.5	48
100	Bacterial Degradation and Corrosion of Naphtha in Transporting Pipeline. <i>Current Microbiology</i> , 2007, 55, 374-381.	1.0	39
101	Biodegradation and corrosion behaviour of <i>Serratia marcescens</i> ACE2 isolated from an Indian diesel-transporting pipeline. <i>World Journal of Microbiology and Biotechnology</i> , 2007, 23, 1065-1074.	1.7	28
102	Role of <i>Serratia marcescens</i> ACE2 on diesel degradation and its influence on corrosion. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2007, 34, 589-598.	1.4	54
103	Bacterial degradation of naphtha and its influence on corrosion. <i>Corrosion Science</i> , 2005, 47, 257-271.	3.0	73
104	Synthesis of silver nanoparticles from Indian red yeast rice and its inhibition of biofilm in copper metal in cooling water environment. <i>Environmental Science and Pollution Research</i> , 0, , .	2.7	1