

Palanivelu kandasamy

List of Publications by Year in descending order

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120
papers

5,907
citations

81900

39
h-index

74163

75
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124
all docs

124
docs citations

124
times ranked

6307
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the Local Perception, Adaptation to Climate Change and Resilience Planning Among the Farmers of Semi-Arid Tracks of South India. <i>Agricultural Research</i> , 2022, 11, 291-308.	1.7	4
2	Carbon capture and storage using coal fly ash with flue gas. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 1053-1071.	4.1	5
3	Spatio-temporal variation and sensitivity analysis of aerosol particulate matter during the COVID-19 phase-wise lockdowns in Indian cities. <i>Journal of Atmospheric Chemistry</i> , 2022, 79, 39-66.	3.2	2
4	Climate variability trend and extreme indices for the Thanjavur Delta region of Tamil Nadu in South India. <i>Mausam</i> , 2022, 73, 237-250.	0.1	0
5	Removal of Mercury in Aqueous Solutions Using Tri n-Butyl Phosphate-Based Polymer Inclusion Membrane. <i>Environmental Engineering Science</i> , 2022, 39, 650-661.	1.6	4
6	Polymeric composite membranes in carbon dioxide capture process: a review. <i>Environmental Science and Pollution Research</i> , 2022, 29, 38735-38767.	5.3	15
7	Thin-film hydrogel polymer layered polyvinyltrimethylsilane dual-layer flat-bed composite membrane for CO_2 gas separation. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	7
8	Biochar from biomass waste as a renewable carbon material for climate change mitigation in reducing greenhouse gas emissions—a review. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 2247-2267.	4.6	83
9	Waste cooking oil as an efficient solvent for the production of urea precursor ammonium carbamate from carbon dioxide. , 2021, 11, 222-231.		1
10	Enhancement of Gas Separation Properties of Polyvinyltrimethylsilane by Low-Temperature Plasma Treatment for Carbon Dioxide Utilization in “Green Chemistry” Processes. <i>Membranes and Membrane Technologies</i> , 2021, 3, 43-51.	1.9	2
11	Challenges in Chennai City to Cope with Changing Climate. , 2021, 3, 33-43.		0
12	Sequestration of CO_2 by red mud with flue gas using response surface methodology. <i>Carbon Management</i> , 2021, 12, 139-151.	2.4	14
13	Efficient facilitated transport PETIM dendrimer-PVA-PEG/PTFE composite flat-bed membranes for selective removal of CO_2 . <i>Journal of Membrane Science</i> , 2021, 622, 119007.	8.2	7
14	Climate risks and socio-economic vulnerability in Tamil Nadu, India. <i>Theoretical and Applied Climatology</i> , 2021, 145, 121-135.	2.8	8
15	Prediction of Future Extremes During the Northeast Monsoon in the Coastal Districts of Tamil Nadu State in India Based on ENSO. <i>Pure and Applied Geophysics</i> , 2021, 178, 3207-3228.	1.9	3
16	Urban Climate Change Adaptation Framework for Chennai City, India. , 2021, , 1-23.		0
17	Utilization of steelmaking slag for carbon capture and storage with flue gas. <i>Environmental Science and Pollution Research</i> , 2021, , 1.	5.3	2
18	Urban Climate Change Adaptation Framework for Chennai City, India. , 2021, , 3431-3453.		0

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19	Transmembrane gas transfer: Mathematics of diffusion and experimental practice. Journal of Membrane Science, 2020, 601, 117737.	8.2	14
20	Trends of the observed temperature and its variations in the Tamil Nadu State of India. Theoretical and Applied Climatology, 2019, 137, 103-116.	2.8	8
21	Carbon dioxide separation using γ -alumina ceramic tube supported cellulose triacetate-tributyl phosphate composite membrane. , 2019, 9, 287-305.		9
22	Performance of urban storm drainage network under changing climate scenarios: Flood mitigation in Indian coastal city. Scientific Reports, 2019, 9, 7783.	3.3	38
23	Climate change impact on fluvial flooding in the Indian sub-basin: A case study on the Adyar sub-basin. PLoS ONE, 2019, 14, e0216461.	2.5	18
24	Characterization of future climate extremes over Tamil Nadu, India, using high-resolution regional climate model simulation. Theoretical and Applied Climatology, 2019, 138, 1297-1309.	2.8	6
25	Spatial and temporal variations of water quality in Pallikaranai wetland, Chennai, India. International Journal of Global Environmental Issues, 2019, 18, 86.	0.1	0
26	Spatial and temporal variations of water quality in Pallikaranai wetland, Chennai, India. International Journal of Global Environmental Issues, 2019, 18, 86.	0.1	0
27	Alkyl amine and vegetable oil mixture—a viable candidate for CO ₂ capture and utilization. Environmental Science and Pollution Research, 2017, 24, 5733-5745.	5.3	6
28	Sequestration of carbon dioxide by red mud through direct mineral carbonation at room temperature. International Journal of Global Warming, 2017, 11, 23.	0.5	9
29	Projection of climate change-induced sea-level rise for the coasts of Tamil Nadu and Puducherry, India using SimCLIM: a first step towards planning adaptation policies. Journal of Coastal Conservation, 2017, 21, 731-742.	1.6	29
30	Separation of carbon dioxide and nitrogen gases using novel composite membranes. Canadian Journal of Chemistry, 2017, 95, 57-67.	1.1	8
31	Spatiotemporal analysis of projected impacts of climate change on the major C3 and C4 crop yield under representative concentration pathway 4.5: Insight from the coasts of Tamil Nadu, South India. PLoS ONE, 2017, 12, e0180706.	2.5	22
32	Carbon dioxide capture by facilitated transport membranes: a review. International Journal of Global Warming, 2017, 12, 1.	0.5	4
33	Sequestration of carbon dioxide by red mud through direct mineral carbonation at room temperature. International Journal of Global Warming, 2017, 11, 23.	0.5	1
34	Praseodymium oxide modified hybrid silane coatings for anti-corrosion applications. Surface Engineering, 2016, 32, 47-52.	2.2	12
35	Climate change projections over India by a downscaling approach using PRECIS. Asia-Pacific Journal of Atmospheric Sciences, 2016, 52, 353-369.	2.3	31
36	Vulnerability and adaptation assessment a way forward for sustainable sectoral development in the purview of climate variability and change: insights from the coast of Tamil Nadu, India. International Journal of Global Warming, 2016, 10, 307.	0.5	9

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37	Degradation of phenol and trichlorophenol by heterogeneous photo-Fenton process using Granular Ferric Hydroxide [®] : comparison with homogeneous system. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 927-936.	3.5	23
38	Direct mineral carbonation of steelmaking slag for CO ₂ sequestration at room temperature. <i>Environmental Science and Pollution Research</i> , 2016, 23, 7349-7359.	5.3	41
39	Direct mineral carbonation of coal fly ash for CO ₂ sequestration. <i>Journal of Cleaner Production</i> , 2016, 112, 4173-4182.	9.3	137
40	The urgent call for land degradation vulnerability assessment for conserving land quality in the purview of climate change: Perspective from South Indian Coast. <i>AIMS Agriculture and Food</i> , 2016, 1, 330-341.	1.6	2
41	Vulnerability and adaptation assessment a way forward for sustainable sectoral development in the purview of climate variability and change: insights from the coast of Tamil Nadu, India. <i>International Journal of Global Warming</i> , 2016, 10, 307.	0.5	2
42	Anti-corrosion coatings on SS 304 by incorporation of Pr ₆ O ₁₁ •TiO ₂ in siloxane network. <i>Surface Engineering and Applied Electrochemistry</i> , 2015, 51, 589-597.	0.8	4
43	Assessment of Population Exposure to Coarse and Fine Particulate Matter in the Urban Areas of Chennai, India. <i>Scientific World Journal, The</i> , 2015, 2015, 1-11.	2.1	9
44	Projected and Observed Aridity and Climate Change in the East Coast of South India under RCP 4.5. <i>Scientific World Journal, The</i> , 2015, 2015, 1-11.	2.1	15
45	Conversion of carbon dioxide to resorcylic acid under ultrasonication by Kolbe•Schmitt reaction. <i>Ultrasonics Sonochemistry</i> , 2015, 27, 268-276.	8.2	8
46	Carbon Dioxide Capture and Utilization by Alkanolamines in Deep Eutectic Solvent Medium. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 11383-11392.	3.7	42
47	Biodegradation of Photo-Oxidized Low-Density Polyethylene Using Photodegradable Additive. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2014, 44, 55-64.	0.6	1
48	Absorption of carbon dioxide in alkanolamine and vegetable oil mixture and isolation of 2-amino-2-methyl-1-propanol carbamate. <i>Journal of CO₂ Utilization</i> , 2014, 6, 45-52.	6.8	23
49	Facile fabrication of core•shell Pr ₆ O ₁₁ -ZnO modified silane coatings for anti-corrosion applications. <i>Applied Surface Science</i> , 2014, 288, 60-68.	6.1	26
50	Natural solar light driven degradation of refractory chlorophenolic pollutant using. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 1804-1812.	6.7	2
51	Thermally Sprayable Anti-corrosion Marine Coatings Based on MAH-g-LDPE/UHMWPE Nanocomposites. <i>Journal of Thermal Spray Technology</i> , 2014, 23, 1413-1424.	3.1	14
52	•Climate portfolio•™ of Pichavaram mangrove region of Tamil Nadu coast, India: an add-on information for adaptation policy planning. <i>Journal of Integrative Environmental Sciences</i> , 2014, 11, 173-186.	2.5	7
53	Synergistic effect of silane modified nanocomposites for active corrosion protection. <i>Ceramics International</i> , 2013, 39, 7619-7625.	4.8	39
54	Electrospinning of Polymer-Unaided TiO ₂ Fibers and Iron Impregnation for Sunlight-Induced Photo-Fenton's Degradation of Dyes. <i>Environmental Engineering Science</i> , 2013, 30, 653-662.	1.6	6

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55	Mechanical and morphological behaviour of grafted UHMWPE/EVA nanoclay composites. , 2013, , .		4
56	Recovery of Sodium Bicarbonate from Textile Dye Bath Effluent Using Carbon Dioxide Gas. Industrial & Engineering Chemistry Research, 2013, 52, 16922-16928.	3.7	10
57	Investigation on the Structural and Magnetic Properties of a Polymer Composite: Polyaniline/Cr ₂ O ₃ . Polymer-Plastics Technology and Engineering, 2012, 51, 317-320.	1.9	14
58	A New Additive Formulation to Enhance Photo and Biodegradation Characteristics of Polypropylene. International Journal of Polymeric Materials and Polymeric Biomaterials, 2012, 61, 793-808.	3.4	13
59	Recovery of copper(II) through polymer inclusion membrane with di (2-ethylhexyl) phosphoric acid as carrier from e-waste. Journal of Membrane Science, 2012, 415-416, 663-669.	8.2	49
60	Investigation of the properties of ferromagnetic ZnO:Cr ₂ O ₃ nanocomposites. Materials Science in Semiconductor Processing, 2012, 15, 326-330.	4.0	13
61	Dechlorination of chlorophenols by zero valent iron impregnated silica. Journal of Environmental Sciences, 2012, 24, 765-773.	6.1	48
62	Sunlight-Induced Photocatalytic Degradation of Organic Pollutants by Carbon-Modified Nanotitania with Vegetable Oil as Precursor. Industrial & Engineering Chemistry Research, 2011, 50, 3130-3138.	3.7	31
63	Removal and recovery of p-nitrophenol from aqueous solution using natural solid triglycerides. Desalination, 2011, 272, 196-200.	8.2	13
64	Preconcentration and separation of copper, nickel and zinc in aqueous samples by flame atomic absorption spectrometry after column solid-phase extraction onto MWCNTs impregnated with D2EHPA-TOPO mixture. Journal of Hazardous Materials, 2011, 185, 1131-1139.	12.4	137
65	Degradation of 2,4,6-trichlorophenol by photo Fenton TM s like method using nano heterogeneous catalytic ferric ion. Solar Energy, 2010, 84, 1613-1618.	6.1	45
66	Sonochemical degradation of textile dyes in aqueous solution using sulphate radicals activated by immobilized cobalt ions. Ultrasonics Sonochemistry, 2010, 17, 566-571.	8.2	82
67	Transport of cationic dye by supported liquid membrane using D2EHPA as the carrier. Coloration Technology, 2010, 126, 97-102.	1.5	15
68	Electrolytic Recovery of Nickel from Spent Electroless Nickel Bath Solution. E-Journal of Chemistry, 2010, 7, 1412-1420.	0.5	18
69	Photocatalytic Degradation of Procion Blue Dye in Aqueous Solution by a TiO ₂ -Carbon Nano-Composite. Journal of Nanoscience and Nanotechnology, 2010, 10, 297-302.	0.9	4
70	Column Removal of Trichloroethylene and Dichloromethane using Low Cost Activated Carbon. Carbon Letters, 2010, 11, 13-21.	5.9	2
71	Facilitated transport of cationic dyes through a supported liquid membrane with D2EHPA as carrier. Desalination, 2009, 245, 19-27.	8.2	34
72	A Self-Supported Direct Borohydride-Hydrogen Peroxide Fuel Cell System. Energies, 2009, 2, 190-201.	3.1	20

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73	A Study on the Degradation of 2,4-Dichlorophenol by Electrochemical Oxidation Using TiO ₂ Modified Graphite Electrode. <i>Science of Advanced Materials</i> , 2009, 1, 186-191.	0.7	2
74	Degradation of 2,4-dichlorophenol in aqueous solution by sono-Fenton method. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 112-117.	2.7	50
75	Preparation and characterization of carbon covered TiO ₂ using sucrose for solar photodegradation. <i>Journal of Industrial and Engineering Chemistry</i> , 2008, 14, 667-671.	5.8	33
76	Effect of Exo- and Endothermic Blowing and Wetting Agents on Morphology, Density and Hardness of Thermoplastic Polyurethanes Foams. <i>Journal of Cellular Plastics</i> , 2008, 44, 277-292.	2.4	16
77	Speciation of heavy metals in electroplating industry sludge and wastewater residue using inductively coupled plasma. <i>International Journal of Environmental Science and Technology</i> , 2007, 4, 497-504.	3.5	61
78	Recovery of 1-butanol from a model pharmaceutical aqueous waste by pervaporation. <i>Chemical Engineering Science</i> , 2007, 62, 2905-2914.	3.8	72
79	Di(2-ethylhexyl)phosphoric acid-coconut oil supported liquid membrane for the separation of copper ions from copper plating wastewater. <i>Journal of Environmental Sciences</i> , 2007, 19, 1446-1453.	6.1	64
80	Carbon Doping of TiO ₂ for Visible Light Photo Catalysis - A review. <i>Carbon Letters</i> , 2007, 8, 214-224.	5.9	75
81	Treatment of municipal landfill leachate by solar photocatalytic method using fixed titanium dioxide. , 2007, 49, 54-7.		0
82	Removal of CI Reactive Yellow 125, CI Reactive Red 158 and CI Reactive Red 159 dyes from aqueous solution with a supported liquid membrane containing tributylphosphate as carrier. <i>Journal of the Textile Institute</i> , 2006, 97, 341-348.	1.9	14
83	Treatability studies on textile effluent for total dissolved solids reduction using electrodialysis. <i>Desalination</i> , 2006, 201, 164-174.	8.2	18
84	Transport of textile dye in vegetable oils based supported liquid membrane. <i>Dyes and Pigments</i> , 2006, 70, 99-104.	3.7	87
85	Biosorption of copper(II) and cobalt(II) from aqueous solutions by crab shell particles. <i>Bioresource Technology</i> , 2006, 97, 1411-1419.	9.6	289
86	Recovery of phenol from aqueous solution by supported liquid membrane using vegetable oils as liquid membrane. <i>Journal of Hazardous Materials</i> , 2006, 131, 146-152.	12.4	94
87	Biosorption of nickel(II) ions onto <i>Sargassum wightii</i> : Application of two-parameter and three-parameter isotherm models. <i>Journal of Hazardous Materials</i> , 2006, 133, 304-308.	12.4	729
88	Adsorptive removal of chlorophenols from aqueous solution by low cost adsorbent Kinetics and isotherm analysis. <i>Journal of Hazardous Materials</i> , 2006, 138, 116-124.	12.4	212
89	Treatment of nickel containing electroplating effluents with <i>Sargassum wightii</i> biomass. <i>Process Biochemistry</i> , 2006, 41, 853-859.	3.7	57
90	Nickel Recovery from Aqueous Solution Using Crab Shell Particles. <i>Adsorption Science and Technology</i> , 2005, 23, 303-312.	3.2	24

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91	Degradation of nitrophenols by Fenton and photo-Fenton processes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 170, 83-95.	3.9	176
92	Studies on recovery of hexavalent chromium from plating wastewater by supported liquid membrane using tri-n-butyl phosphate as carrier. <i>Hydrometallurgy</i> , 2005, 78, 107-115.	4.3	83
93	Batch and column removal of copper from aqueous solution using a brown marine alga <i>Turbinaria ornata</i> . <i>Chemical Engineering Journal</i> , 2005, 106, 177-184.	12.7	153
94	Selective extraction and separation of textile anionic dyes from aqueous solution by tetrabutyl ammonium bromide. <i>Dyes and Pigments</i> , 2005, 64, 251-257.	3.7	54
95	Electrochemical treatment of reactive dye effluent using solar energy. <i>Coloration Technology</i> , 2005, 121, 198-202.	1.5	4
96	Removal and recovery of copper from aqueous solution by eggshell in a packed column. <i>Minerals Engineering</i> , 2005, 18, 545-547.	4.3	49
97	Biosorption of cobalt(II) and nickel(II) by seaweeds: batch and column studies. <i>Separation and Purification Technology</i> , 2005, 44, 53-59.	7.9	164
98	Indirect Electrochemical Oxidation of Phenol in the Presence of Chloride for Wastewater Treatment. <i>Chemical Engineering and Technology</i> , 2005, 28, 98-105.	1.5	125
99	Crab shell-based biosorption technology for the treatment of nickel-bearing electroplating industrial effluents. <i>Journal of Hazardous Materials</i> , 2005, 119, 251-254.	12.4	47
100	Combined electrochemical degradation and activated carbon adsorption treatments for wastewater containing mixed phenolic compounds. <i>Journal of Environmental Engineering and Science</i> , 2005, 4, 1-9.	0.8	48
101	Removal of textile dyes from aqueous solution using PEG based aqueous biphasic system. <i>Toxicological and Environmental Chemistry</i> , 2005, 87, 499-507.	1.2	9
102	Recovery of Chromium from Electroplating Wastewater Using DI (Ethylhexyl) Phosphoric Acid. <i>Separation Science and Technology</i> , 2005, 40, 2125-2137.	2.5	24
103	Continuous Sorption of Copper and Cobalt By Crab Shell Particles in a Packed Column. <i>Environmental Technology (United Kingdom)</i> , 2005, 26, 267-276.	2.2	32
104	Assessment of heavy metal species in decomposed municipal solid waste. <i>Chemical Speciation and Bioavailability</i> , 2005, 17, 95-102.	2.0	38
105	Biosorption of copper, cobalt and nickel by marine green alga <i>Ulva reticulata</i> in a packed column. <i>Chemosphere</i> , 2005, 60, 419-426.	8.2	144
106	Destruction of cresols by Fenton oxidation process. <i>Water Research</i> , 2005, 39, 3062-3072.	11.3	231
107	Solvent extraction of hexavalent chromium with tetrabutyl ammonium bromide from aqueous solution. <i>Separation and Purification Technology</i> , 2004, 40, 279-284.	7.9	86
108	Removal of nickel(II) ions from aqueous solution using crab shell particles in a packed bed up-flow column. <i>Journal of Hazardous Materials</i> , 2004, 113, 223-230.	12.4	179

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109	Electrochemical treatment of industrial wastewater. Journal of Hazardous Materials, 2004, 113, 123-129.	12.4	302
110	The role of ferrous ion in Fenton and photo-Fenton processes for the degradation of phenol. Chemosphere, 2004, 55, 1235-1243.	8.2	468
111	Copper removal from aqueous solution by marine green alga <i>Ulva reticulata</i> . Electronic Journal of Biotechnology, 2004, 7, .	2.2	3
112	Degradation of 2-Chlorophenol by Fenton and Photo-Fenton Processes—A Comparative Study. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2003, 38, 1215-1231.	1.7	41
113	Electrochemical Degradation of Cresols for Wastewater Treatment. Industrial & Engineering Chemistry Research, 2003, 42, 1833-1839.	3.7	73
114	Destruction of cyanide in aqueous waste by electrochemical oxidation. Annali Di Chimica, 2003, 93, 811-5.	0.6	0
115	Studies on thermoplastic polyurethane toughened poly(butylene terephthalate) blends. Polymer Testing, 2002, 21, 345-351.	4.8	49
116	ELECTROCHEMICAL OXIDATION OF RESORCINOL FOR WASTEWATER TREATMENT USING Ti/TiO ₂ -RuO ₂ -IrO ₂ ELECTRODE. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2001, 36, 1997-2010.	1.7	23
117	Thermoplastic polyurethane toughened polyacetal blends. Polymer Testing, 2000, 19, 75-83.	4.8	47
118	Thermodynamic activities at 1256 K in the system nickel oxide-magnesium oxide-zinc oxide using a solid-state galvanic cell. Journal of Materials Science Letters, 1993, 12, 1927-1929.	0.5	0
119	A chemical enhancement method for the spectrophotometric determination of trace amounts of arsenic. Talanta, 1992, 39, 555-561.	5.5	14
120	Removal of Hexavalent Chromium on Chitosan-Deposited Activated Carbon. Solid State Phenomena, 0, 135, 85-88.	0.3	10