James Tardio

List of Publications by Year in descending order

78 papers	2,538 citations	218677 26 h-index	206112 48 g-index
80 all docs	80 docs citations	80 times ranked	2985 citing authors

#	Article	IF	Citations
1	Machine learning aided experimental approach for evaluating the growth kinetics of Candida antarctica for lipase production. Bioresource Technology, 2022, 352, 127087.	9.6	9
2	One-pot conversion of levulinic acid into gamma-valerolactone over a stable Ru tungstosphosphoric acid catalyst. Fuel, 2021, 289, 119900.	6.4	14
3	Looking into More Eyes Combining In Situ Spectroscopy in Catalytic Biofuel Upgradation with Composition-Graded Agâ€“Co Coreâ€“Shell Nanoalloys. ACS Sustainable Chemistry and Engineering, 2021, 9, 3750-3767.	6.7	15
4	Phase Equilibria Study of CaO-Al2O3-SiO2-Na2O Slags for Smelting Waste Printed Circuit Boards. Jom, 2021, 73, 1889.	1.9	1
5	A study into the behaviour of nickel, cobalt and metal impurities during partial neutralisation of synthetic nickel laterite pressure leach solutions and pulps. Hydrometallurgy, 2021, 202, 105604.	4.3	3
6	An investigation into potential pathways for nickel and cobalt loss during impurity removal from synthetic nickel laterite pressure acid leach solutions via partial neutralisation. Hydrometallurgy, 2021, 202, 105595.	4.3	6
7	Distribution, Separation and Characterisation of Valuable Heavy Minerals from the Brahmaputra River Basin, Kurigram District, Bangladesh. Minerals (Basel, Switzerland), 2021, 11, 786.	2.0	5
8	Comparison of the chemistry and mineralogy of ilmenite concentrates sourced from fluvial (Brahmaputra River) and beach placer (Coxâ€™s Bazar) deposits, Bangladesh. Ore Geology Reviews, 2020, 117, 103271.	2.7	12
9	Selective conversion of furfural into tetrahydrofurfuryl alcohol using a heteropoly acid-based material as a hydrogenation catalyst. Sustainable Energy and Fuels, 2020, 4, 4768-4779.	4.9	14
10	Geochemistry of Recent Brahmaputra River Sediments: Provenance, Tectonics, Source Area Weathering and Depositional Environment. Minerals (Basel, Switzerland), 2020, 10, 813.	2.0	10
11	Leveraging Cu/CuFe₂O₄-Catalyzed Biomass-Derived Furfural Hydrodeoxygenation: A Nanoscale Metalâ€“Organic-Framework Template Is the Prime Key. ACS Applied Materials & Interfaces, 2020, 12, 21682-21700.	8.0	75
12	Characterisation of a ferruginous rare earth bearing lateritic ore and implications for rare earth mineral processing. Minerals Engineering, 2019, 134, 23-36.	4.3	16
13	Porous Organic Polymer-Driven Evolution of High-Performance Cobalt Phosphide Hybrid Nanosheets as Vanillin Hydrodeoxygenation Catalyst. ACS Applied Materials & Interfaces, 2019, 11, 24140-24153.	8.0	57
14	Studies on the adsorption of phosphate using lanthanide functionalized KIT- 6. Microporous and Mesoporous Materials, 2019, 286, 77-83.	4.4	11
15	Integration of Interfacial and Alloy Effects to Modulate Catalytic Performance of Metalâ€“Organic-Framework-Derived Cuâ€“Pd Nanocrystals toward Hydrogenolysis of 5-Hydroxymethylfurfural. ACS Sustainable Chemistry and Engineering, 2019, 7, 10349-10362.	6.7	83
16	Experimental study into the beneficiation of a ferruginous rare earth bearing lateritic ore by magnetising roasting and magnetic separation. Minerals Engineering, 2019, 137, 303-318.	4.3	6
17	Cold vapor integrated quartz crystal microbalance (CV-QCM) based detection of mercury ions with gold nanostructures. Sensors and Actuators B: Chemical, 2019, 290, 453-458.	7.8	13
18	CH₄ Cracking over the Cuâ€“Ni/Al-MCM-41 Catalyst for the Simultaneous Production of H₂ and Highly Ordered Graphitic Carbon Nanofibers. Energy & Fuels, 2019, 33, 12656-12665.	5.1	15

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19	Promotional Effect of Cu and Influence of Surface Niâ€“Cu Alloy for Enhanced H₂ Yields from CH₄ Decomposition over Cu-Modified Ni Supported on MCM-41 Catalyst. Energy & Fuels, 2018, 32, 4008-4015.	5.1	27
20	Hydrodeoxygenation activity of W modified Ni/H-ZSM-5 catalyst for single step conversion of levulinic acid to pentanoic acid: An insight on the reaction mechanism and structure activity relationship. Applied Catalysis A: General, 2018, 550, 142-150.	4.3	34
21	Kinetics of uranium extraction from coffiniteâ€”A comparison with other common uranium minerals. Transactions of Nonferrous Metals Society of China, 2018, 28, 2135-2142.	4.2	7
22	Uranium leaching from synthetic betafite: [(Ca,U)2(Ti,Nb,Ta)2O7]. International Journal of Mineral Processing, 2017, 160, 58-67.	2.6	9
23	Application of ferrous pyrometallurgy to the beneficiation of rare earth bearing iron ores â€“ A review. Minerals Engineering, 2017, 110, 20-30.	4.3	39
24	The effect of thermal pre-treatment on the dissolution of chalcopyrite (CuFeS2) in sulfuric acid media. Hydrometallurgy, 2017, 169, 68-78.	4.3	20
25	Investigation into coal-based magnetizing roasting of an iron-rich rare earth ore and the associated mineralogical transformations. Minerals Engineering, 2017, 114, 37-49.	4.3	30
26	Development of a new near infrared (NIR) tool for quantifying coffinite (USiO 4) in a moderately complex uranium ore analogue. Journal of Geochemical Exploration, 2017, 182, 80-93.	3.2	4
27	Ni/H-ZSM-5 as a stable and promising catalyst for CO_x free H₂ production by CH₄ decomposition. RSC Advances, 2016, 6, 34600-34607.	3.6	11
28	Nano size HÎ² zeolite as an effective support for Ni and Ni Cu for CO x free hydrogen production by catalytic decomposition of methane. International Journal of Hydrogen Energy, 2016, 41, 19855-19862.	7.1	35
29	An investigation on the influence of support type for Ni catalysed vapour phase hydrogenation of aqueous levulinic acid to Î³-valerolactone. RSC Advances, 2016, 6, 9872-9879.	3.6	92
30	Ceriaâ€“zirconia modified MnO_x catalysts for gaseous elemental mercury oxidation and adsorption. Catalysis Science and Technology, 2016, 6, 1792-1803.	4.1	122
31	Studying mercury partition in monoethylene glycol (MEG) used in gas facilities. Fuel, 2015, 159, 917-924.	6.4	10
32	Catalytic oxidation and adsorption of elemental mercury over nanostructured CeO₂â€“MnO_x catalyst. RSC Advances, 2015, 5, 30331-30341.	3.6	82
33	Characterisation and leaching studies on the uranium mineral betafite [(U,Ca) 2 (Nb,Ti,Ta) 2 O 7]. Minerals Engineering, 2015, 81, 58-70.	4.3	16
34	Influence of Rare Earth (La, Pr, Nd, Gd, and Sm) Metals on the Methane Decomposition Activity of Niâ€“Al Catalysts. ACS Sustainable Chemistry and Engineering, 2015, 3, 1298-1305.	6.7	34
35	Mercury Migration and Speciation Study during Monoethylene Glycol Regeneration Processes. Industrial & Engineering Chemistry Research, 2015, 54, 5349-5355.	3.7	9
36	Role of BrÃ¸nsted and Lewis acid sites on Ni/TiO2 catalyst for vapour phase hydrogenation of levulinic acid: Kinetic and mechanistic study. Applied Catalysis A: General, 2015, 505, 217-223.	4.3	115

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37	A review of acid leaching of uraninite. Hydrometallurgy, 2015, 151, 10-24.	4.3	83
38	Pyrolysis of activated sludge: Energy analysis and its technical feasibility. Bioresource Technology, 2015, 178, 70-75.	9.6	26
39	Effect of pyrolysis parameters on yield and composition of gaseous products from activated sludge: towards sustainable biorefinery. Biomass Conversion and Biorefinery, 2015, 5, 227-235.	4.6	9
40	Pyrolysis Biochar from Cellulosic Municipal Solid Waste as Adsorbent for Azo Dye Removal: Equilibrium Isotherms and Kinetics Analysis. International Journal of Environmental Science and Development, 2015, 6, 67-72.	0.6	18
41	Synthesis and characterisation of the uranium pyrochlore betafite [(Ca,U)2(Ti,Nb,Ta)2O7]. Journal of Hazardous Materials, 2014, 280, 478-486.	12.4	21
42	Selectivty Assessments of a Sequential Extraction Procedure for Potential Trace Metalsâ€™ Mobility and Bioavailability in Phosphate Rocks from Jordan Phosphate Mines. Soil and Sediment Contamination, 2014, 23, 417-436.	1.9	10
43	Performance assessment and hydrodynamic analysis of a submerged membrane bioreactor for treating dairy industrial effluent. Journal of Hazardous Materials, 2014, 274, 300-313.	12.4	25
44	The effect of [Fe]TOT on the dissolution of synthetic Pb-doped UO2 and Th-doped UO2. Minerals Engineering, 2014, 58, 26-38.	4.3	5
45	Economical treatment of reverse osmosis reject of textile industry effluent by electrodialysisâ€“evaporation integrated process. Desalination, 2014, 333, 82-91.	8.2	34
46	Leaching behaviour of natural and heat-treated brannerite-containing uranium ores in sulphate solutions with iron(III). Minerals Engineering, 2014, 57, 25-35.	4.3	19
47	VOC emission from alumina calcination stacks caused by thermal decomposition of organic additives. Journal of Environmental Chemical Engineering, 2014, 2, 626-631.	6.7	4
48	Gold nanospikes based microsensor as a highly accurate mercury emission monitoring system. Scientific Reports, 2014, 4, 6741.	3.3	44
49	High surface area Auâ€“SBA-15 and Auâ€“MCM-41 materials synthesis: Tryptophan amino acid mediated confinement of gold nanostructures within the mesoporous silica pore walls. Journal of Colloid and Interface Science, 2013, 394, 475-484.	9.4	46
50	Synthesis of very high surface area Au-SBA-15 materials by confinement of gold nanoparticles formation within silica pore walls. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 429, 149-158.	4.7	7
51	Chemical and micro-structural characterisation studies on natural uraninite and associated gangue minerals. Minerals Engineering, 2013, 45, 159-169.	4.3	22
52	Critical analysis of pyrolysis process with cellulosic based municipal waste as renewable source in energy and technical perspective. Bioresource Technology, 2013, 147, 361-368.	9.6	21
53	An investigation on the role of ytterbium in ytterbium promoted Î³-alumina-supported nickel catalysts for dry reforming of methane. International Journal of Hydrogen Energy, 2013, 38, 14223-14231.	7.1	13
54	Structural characterization and catalytic evaluation of transition and rare earth metal doped ceria-based solid solutions for elemental mercury oxidation. RSC Advances, 2013, 3, 12963.	3.6	73

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55	Biohydrogen production from kitchen based vegetable waste: Effect of pyrolysis temperature and time on catalysed and non-catalysed operation. Bioresource Technology, 2013, 130, 502-509.	9.6	24
56	An investigation on the dissolution of synthetic brannerite (UTi2O6). Hydrometallurgy, 2013, 139, 1-8.	4.3	17
57	An investigation on the effects of several anions on the dissolution of synthetic uraninite (UO2). Hydrometallurgy, 2013, 136, 93-104.	4.3	17
58	Chemical and microstructural characterisation studies on natural and heat treated brannerite samples. Minerals Engineering, 2012, 39, 276-288.	4.3	26
59	Study of Surface Morphology Effects on Hg Sorptionâ€“Desorption Kinetics on Gold Thin-Films. Journal of Physical Chemistry C, 2012, 116, 2483-2492.	3.1	28
60	Highly stable and active Ni-mesoporous alumina catalysts for dry reforming of methane. International Journal of Hydrogen Energy, 2012, 37, 1454-1464.	7.1	108
61	Highly stable ytterbium promoted Ni/Î³-Al2O3 catalysts for carbon dioxide reforming of methane. Applied Catalysis B: Environmental, 2012, 119-120, 217-226.	20.2	110
62	An investigation on the effects of Fe (FeIII, FeII) and oxidation reduction potential on the dissolution of synthetic uraninite (UO2). Hydrometallurgy, 2011, 109, 125-130.	4.3	24
63	Creating gold nanoprisms directly on quartz crystal microbalance electrodes for mercury vapor sensing. Nanotechnology, 2011, 22, 305501.	2.6	40
64	Characterisation of a uranium ore using multiple X-ray diffraction based methods. Minerals Engineering, 2010, 23, 739-745.	4.3	4
65	Fundamentals of Wet Oxidation of Bayer-Process Liquor: Reactivity of Malonates. Industrial & Engineering Chemistry Research, 2010, 49, 5347-5352.	3.7	5
66	Mercury diffusion in gold and silver thin film electrodes on quartz crystal microbalance sensors. Sensors and Actuators B: Chemical, 2009, 137, 246-252.	7.8	36
67	Electro-deposition of gold nano-structures on gold Quartz Crystal Microbalance (QCM) electrodes for enhanced mercury vapour sensitivity in the presence of interferent gases. , 2008, , .		1
68	Catalytic wet oxidation of ferulic acid. International Journal of Environmental Technology and Management, 2008, 9, 87.	0.2	3
69	Gold Coated Nanostructured Molybdenum Oxide Mercury Vapour Quartz Crystal Microbalance Sensor. Sensor Letters, 2008, 6, 231-236.	0.4	8
70	Catalytic Wet Oxidation of Ferulic Acid (A Model Lignin Compound) Using Heterogeneous Copper Catalysts. Industrial & Engineering Chemistry Research, 2007, 46, 8652-8656.	3.7	38
71	Removal of mercury from an alumina refinery aqueous stream. Journal of Hazardous Materials, 2007, 144, 274-282.	12.4	18
72	Wet peroxide oxidation and catalytic wet oxidation of stripped sour water produced during oil shale refining. Journal of Hazardous Materials, 2007, 146, 589-594.	12.4	8

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73	Catalytic Wet Air Oxidation of Industrial Aqueous Streams. Catalysis Surveys From Asia, 2007, 11, 70-86.	2.6	11
74	Wet Oxidation and Catalytic Wet Oxidation. Industrial & Engineering Chemistry Research, 2006, 45, 1221-1258.	3.7	407
75	Interactions between Specific Organic Compounds during Catalytic Wet Oxidation of Bayer Liquor. Industrial & Engineering Chemistry Research, 2004, 43, 847-851.	3.7	24
76	Catalytic Wet Oxidation of Stripped Sour Water from an Oil-Shale Refining Process. Industrial & Engineering Chemistry Research, 2004, 43, 6363-6368.	3.7	13
77	Low-Temperature Wet Oxidation of Sodium Salts of Low Molecular Weight Mono- and Dicarboxylic Acids in Synthetic Bayer Liquor. Industrial & Engineering Chemistry Research, 2004, 43, 669-674.	3.7	13
78	Selective Organic Removal from the Alumina Industrial Liquor:Â Wet Oxidation and Catalytic Wet Oxidation of Disodium Malonate. Industrial & Engineering Chemistry Research, 2002, 41, 1166-1170.	3.7	12