Christopher J Tighe

List of Publications by Year
in descending order

31 papers	989 citations	361413 20 h-index	434195 31 g-index
31 all docs	31 docs citations	31 times ranked	1447 citing authors

#	Article	IF	Citations
1	Sharing good practice in process safety teaching. Education for Chemical Engineers, 2021, 36, 73-81.	4.8	5
2	Rapid formation of 2-lithio-1-(triphenylmethyl)imidazole and substitution reactions in flow. Reaction Chemistry and Engineering, 2021, 6, 2018-2023.	3.7	3
3	The kinetics of oxidation of Diesel soots and a carbon black (Printex U) by O2 with reference to changes in both size and internal structure of the spherules during burnout. Carbon, 2016, 107, 20-35.	10.3	49
4	High-Throughput Synthesis, Screening, and Scale-Up of Optimized Conducting Indium Tin Oxides. ACS Combinatorial Science, 2016, 18, 130-137.	3.8	21
5	Pilot-scale continuous synthesis of a vanadium-doped LiFePO4/C nanocomposite high-rate cathodes for lithium-ion batteries. Journal of Power Sources, 2016, 302, 410-418.	7.8	63
6	Pilot plant scale continuous hydrothermal synthesis of nano-titania; effect of size on photocatalytic activity. Materials Science in Semiconductor Processing, 2016, 42, 131-137.	4.0	32
7	Nanoparticle scaffolds for syngas-fed solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 3011-3018.	10.3	12
8	Suspension plasma sprayed coatings using dilute hydrothermally produced titania feedstocks for photocatalytic applications. Journal of Materials Chemistry A, 2015, 3, 12680-12689.	10.3	21
9	High capacity nanocomposite Fe3O4/Fe anodes for Li-ion batteries. Journal of Power Sources, 2015, 291, 102-107.	7.8	37
10	Nucleation and Growth of Cobalt Oxide Nanoparticles in a Continuous Hydrothermal Reactor under Laminar and Turbulent Flow. Crystal Growth and Design, 2015, 15, 4256-4265.	3.0	23
11	Environmental sensing semiconducting nanoceramics made using a continuous hydrothermal synthesis pilot plant. Sensors and Actuators B: Chemical, 2015, 217, 136-145.	7.8	13
12	A Direct and Continuous Supercritical Water Process for the Synthesis of Surface-Functionalized Nanoparticles. Industrial & Engineering Chemistry Research, 2015, 54, 7436-7451.	3.7	12
13	Impregnation of Nanoparticle Scaffolds for Syngas-Fed Solid Oxide Fuel Cell Anodes. ECS Transactions, 2015, 68, 1219-1227.	0.5	3
14	Novel Composite Cermet for Low-Metal-Content Oxygen Separation Membranes. Chemistry of Materials, 2014, 26, 3887-3895.	6.7	31
15	Imaging the continuous hydrothermal flow synthesis of nanoparticulate CeO2 at different supercritical water temperatures using in situ angle-dispersive diffraction. Journal of Supercritical Fluids, 2014, 87, 118-128.	3.2	20
16	Highly Sensitive ZnO Nanorod- and Nanoprism-Based NO₂ Gas Sensors: Size and Shape Control Using a Continuous Hydrothermal Pilot Plant. Langmuir, 2013, 29, 10603-10609.	3.5	89
17	Core/shell magnetism in NiO nanoparticles. Journal of Applied Physics, 2013, 114, .	2.5	44
18	Scaling-up a Confined Jet Reactor for the Continuous Hydrothermal Manufacture of Nanomaterials. Industrial & Engineering Chemistry Research, 2013, 52, 5270-5281.	3.7	89

#	Article	IF	Citations
19	Scale Up Production of Nanoparticles: Continuous Supercritical Water Synthesis of Ceâ€“Zn Oxides. Industrial & Engineering Chemistry Research, 2013, 52, 5522-5528.	3.7	86
20	Modelling and Simulation of Counter-Current and Confined Jet Reactors for Continuous Hydrothermal Flow Synthesis of Nano-materials. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 874-879.	0.4	5
21	Continuous hydrothermal synthesis of surface-functionalised nanophosphors for biological imaging. RSC Advances, 2012, 2, 10037.	3.6	12
22	The kinetics of oxidation of Diesel soots by NO2. Combustion and Flame, 2012, 159, 77-90.	5.2	81
23	Investigation of counter-current mixing in a continuous hydrothermal flow reactor. Journal of Supercritical Fluids, 2012, 62, 165-172.	3.2	34
24	Simulation of Hydrodynamics and Heat Transfer in Confined Jet Reactors of Different Size Scales for Nanomaterial Production. Computer Aided Chemical Engineering, 2012, , 1236-1240.	0.5	2
25	Adsorption and Reaction of NO₂ on Carbon Black and Diesel Soot at Near-Ambient Temperatures. Industrial & Engineering Chemistry Research, 2011, 50, 10480-10492.	3.7	20
26	High-throughput powder diffraction on beamline I11 at Diamond. Journal of Applied Crystallography, 2011, 44, 102-110.	4.5	28
27	Numerical modelling of hydrothermal fluid flow and heat transfer in a tubular heat exchanger under near critical conditions. Journal of Supercritical Fluids, 2011, 57, 236-246.	3.2	24
28	Tunable and rapid crystallisation of phase pure Bi2MoO6 (koechlinite) and Bi2Mo3O12 via continuous hydrothermal synthesis. Solid State Sciences, 2010, 12, 1683-1686.	3.2	38
29	Highly conductive low nickel content nano-composite dense cermets from nano-powders made via a continuous hydrothermal synthesis route. Solid State Ionics, 2010, 181, 827-834.	2.7	38
30	High-throughput continuous hydrothermal flow synthesis of Znâ€“Ce oxides: unprecedented solubility of Zn in the nanoparticle fluorite lattice. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 4331-4349.	3.4	33
31	The reactions of NO with diesel soot, fullerene, carbon nanotubes and activated carbons doped with transition metals. Proceedings of the Combustion Institute, 2009, 32, 1989-1996.	3.9	21