

# Christopher J Tighe

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2626046/publications.pdf>

Version: 2024-02-01

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	Highly Sensitive ZnO Nanorod- and Nanoprism-Based NO <sub>2</sub> Gas Sensors: Size and Shape Control Using a Continuous Hydrothermal Pilot Plant. <i>Langmuir</i> , 2013, 29, 10603-10609.	3.5	89
2	Scaling-up a Confined Jet Reactor for the Continuous Hydrothermal Manufacture of Nanomaterials. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 5270-5281.	3.7	89
3	Scale Up Production of Nanoparticles: Continuous Supercritical Water Synthesis of Ce-Zn Oxides. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 5522-5528.	3.7	86
4	The kinetics of oxidation of Diesel soots by NO <sub>2</sub> . <i>Combustion and Flame</i> , 2012, 159, 77-90.	5.2	81
5	Pilot-scale continuous synthesis of a vanadium-doped LiFePO <sub>4</sub> /C nanocomposite high-rate cathodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 302, 410-418.	7.8	63
6	The kinetics of oxidation of Diesel soots and a carbon black (Printex U) by O <sub>2</sub> with reference to changes in both size and internal structure of the spherules during burnout. <i>Carbon</i> , 2016, 107, 20-35.	10.3	49
7	Core/shell magnetism in NiO nanoparticles. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	44
8	Tunable and rapid crystallisation of phase pure Bi <sub>2</sub> MoO <sub>6</sub> (koechlinite) and Bi <sub>2</sub> Mo <sub>3</sub> O <sub>12</sub> via continuous hydrothermal synthesis. <i>Solid State Sciences</i> , 2010, 12, 1683-1686.	3.2	38
9	Highly conductive low nickel content nano-composite dense cermets from nano-powders made via a continuous hydrothermal synthesis route. <i>Solid State Ionics</i> , 2010, 181, 827-834.	2.7	38
10	High capacity nanocomposite Fe <sub>3</sub> O <sub>4</sub> /Fe anodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2015, 291, 102-107.	7.8	37
11	Investigation of counter-current mixing in a continuous hydrothermal flow reactor. <i>Journal of Supercritical Fluids</i> , 2012, 62, 165-172.	3.2	34
12	High-throughput continuous hydrothermal flow synthesis of Zn-Ce oxides: unprecedented solubility of Zn in the nanoparticle fluorite lattice. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 4331-4349.	3.4	33
13	Pilot plant scale continuous hydrothermal synthesis of nano-titania; effect of size on photocatalytic activity. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 131-137.	4.0	32
14	Novel Composite Cermet for Low-Metal-Content Oxygen Separation Membranes. <i>Chemistry of Materials</i> , 2014, 26, 3887-3895.	6.7	31
15	High-throughput powder diffraction on beamline I11 at Diamond. <i>Journal of Applied Crystallography</i> , 2011, 44, 102-110.	4.5	28
16	Numerical modelling of hydrothermal fluid flow and heat transfer in a tubular heat exchanger under near critical conditions. <i>Journal of Supercritical Fluids</i> , 2011, 57, 236-246.	3.2	24
17	Nucleation and Growth of Cobalt Oxide Nanoparticles in a Continuous Hydrothermal Reactor under Laminar and Turbulent Flow. <i>Crystal Growth and Design</i> , 2015, 15, 4256-4265.	3.0	23
18	The reactions of NO with diesel soot, fullerene, carbon nanotubes and activated carbons doped with transition metals. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 1989-1996.	3.9	21

#	ARTICLE	IF	CITATIONS
19	Suspension plasma sprayed coatings using dilute hydrothermally produced titania feedstocks for photocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12680-12689.	10.3	21
20	High-Throughput Synthesis, Screening, and Scale-Up of Optimized Conducting Indium Tin Oxides. <i>ACS Combinatorial Science</i> , 2016, 18, 130-137.	3.8	21
21	Adsorption and Reaction of NO <sub>2</sub> on Carbon Black and Diesel Soot at Near-Ambient Temperatures. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 10480-10492.	3.7	20
22	Imaging the continuous hydrothermal flow synthesis of nanoparticulate CeO <sub>2</sub> at different supercritical water temperatures using in situ angle-dispersive diffraction. <i>Journal of Supercritical Fluids</i> , 2014, 87, 118-128.	3.2	20
23	Environmental sensing semiconducting nanoceramics made using a continuous hydrothermal synthesis pilot plant. <i>Sensors and Actuators B: Chemical</i> , 2015, 217, 136-145.	7.8	13
24	Continuous hydrothermal synthesis of surface-functionalised nanophosphors for biological imaging. <i>RSC Advances</i> , 2012, 2, 10037.	3.6	12
25	Nanoparticle scaffolds for syngas-fed solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3011-3018.	10.3	12
26	A Direct and Continuous Supercritical Water Process for the Synthesis of Surface-Functionalized Nanoparticles. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 7436-7451.	3.7	12
27	Modelling and Simulation of Counter-Current and Confined Jet Reactors for Continuous Hydrothermal Flow Synthesis of Nano-materials. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 874-879.	0.4	5
28	Sharing good practice in process safety teaching. <i>Education for Chemical Engineers</i> , 2021, 36, 73-81.	4.8	5
29	Impregnation of Nanoparticle Scaffolds for Syngas-Fed Solid Oxide Fuel Cell Anodes. <i>ECS Transactions</i> , 2015, 68, 1219-1227.	0.5	3
30	Rapid formation of 2-lithio-1-(triphenylmethyl)imidazole and substitution reactions in flow. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 2018-2023.	3.7	3
31	Simulation of Hydrodynamics and Heat Transfer in Confined Jet Reactors of Different Size Scales for Nanomaterial Production. <i>Computer Aided Chemical Engineering</i> , 2012, , 1236-1240.	0.5	2