Antonios Vamvakeros

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	ID15A at the ESRF – a beamline for high speed <i>operando</i> X-ray diffraction, diffraction tomography and total scattering. Journal of Synchrotron Radiation, 2020, 27, 515-528.	2.4	85
2	Chemical imaging of Fischer-Tropsch catalysts under operating conditions. Science Advances, 2017, 3, e1602838.	10.3	76
3	5D operandoÂtomographic diffraction imaging of a catalyst bed. Nature Communications, 2018, 9, 4751.	12.8	76
4	Spatially Resolving Lithiation in Silicon–Graphite Composite Electrodes via in Situ High-Energy X-ray Diffraction Computed Tomography. Nano Letters, 2019, 19, 3811-3820.	9.1	73
5	Spatial quantification of dynamic inter and intra particle crystallographic heterogeneities within lithium ion electrodes. Nature Communications, 2020, 11, 631.	12.8	73
6	Real time chemical imaging of a working catalytic membrane reactor during oxidative coupling of methane. Chemical Communications, 2015, 51, 12752-12755.	4.1	63
7	3D printed Ni/Al2O3 based catalysts for CO2 methanation - a comparative and operando XRD-CT study. Journal of CO2 Utilization, 2019, 33, 478-487.	6.8	62
8	Design of next-generation ceramic fuel cells and real-time characterization with synchrotron X-ray diffraction computed tomography. Nature Communications, 2019, 10, 1497.	12.8	56
9	Multiscale investigation of adsorption properties of novel 3D printed UTSA-16 structures. Chemical Engineering Journal, 2020, 402, 126166.	12.7	55
10	Real-Time Scattering-Contrast Imaging of a Supported Cobalt-Based Catalyst Body during Activation and Fischer–Tropsch Synthesis Revealing Spatial Dependence of Particle Size and Phase on Catalytic Properties. ACS Catalysis, 2017, 7, 2284-2293.	11.2	54
11	Interlaced X-ray diffraction computed tomography. Journal of Applied Crystallography, 2016, 49, 485-496.	4.5	40
12	Removing multiple outliers and single-crystal artefacts from X-ray diffraction computed tomography data. Journal of Applied Crystallography, 2015, 48, 1943-1955.	4.5	39
13	X-ray transparent proton-exchange membrane fuel cell design for in situ wide and small angle scattering tomography. Journal of Power Sources, 2019, 437, 226906.	7.8	35
14	Real-time multi-length scale chemical tomography of fixed bed reactors during the oxidative coupling of methane reaction. Journal of Catalysis, 2020, 386, 39-52.	6.2	35
15	A deep convolutional neural network for real-time full profile analysis of big powder diffraction data. Npj Computational Materials, 2021, 7, .	8.7	31
16	Operando and Postreaction Diffraction Imaging of the La–Sr/CaO Catalyst in the Oxidative Coupling of Methane Reaction. Journal of Physical Chemistry C, 2019, 123, 1751-1760.	3.1	28
17	Exploring cycling induced crystallographic change in NMC with X-ray diffraction computed tomography. Physical Chemistry Chemical Physics, 2020, 22, 17814-17823.	2.8	28
18	Effect of thermal treatment on the stability of Na–Mn–W/SiO ₂ catalyst for the oxidative coupling of methane. Faraday Discussions, 2021, 229, 176-196.	3.2	28

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19	Imaging Heterogeneous Electrocatalyst Stability and Decoupling Degradation Mechanisms in Operating Hydrogen Fuel Cells. ACS Energy Letters, 2021, 6, 2742-2749.	17.4	26
20	Real-time tomographic diffraction imaging of catalytic membrane reactors for the oxidative coupling of methane. Catalysis Today, 2021, 364, 242-255.	4.4	19
21	X-ray physico-chemical imaging during activation of cobalt-based Fischer–Tropsch synthesis catalysts. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170057.	3.4	17
22	<i>In situ</i> X-ray diffraction computed tomography studies examining the thermal and chemical stabilities of working Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3â^î^} membranes during oxidative coupling of methane. Physical Chemistry Chemical Physics, 2020, 22, 18964-18975.	2.8	16
23	DLSR: a solution to the parallax artefact in X-ray diffraction computed tomography data. Journal of Applied Crystallography, 2020, 53, 1531-1541.	4.5	14
24	Cycling Rateâ€Induced Spatiallyâ€Resolved Heterogeneities in Commercial Cylindrical Liâ€Ion Batteries. Small Methods, 2021, 5, e2100512.	8.6	12
25	Multi-length scale 5D diffraction imaging of Ni–Pd/CeO ₂ –ZrO ₂ /Al ₂ O ₃ catalyst during partial oxidation of methane. Journal of Materials Chemistry A, 2021, 9, 11331-11346.	10.3	12
26	Emerging chemical heterogeneities in a commercial 18650 NCA Li-ion battery during early cycling revealed by synchrotron X-ray diffraction tomography. Journal of Power Sources, 2022, 539, 231589.	7.8	10
27	Sustainable iron-based oxygen carriers for hydrogen production – Real-time operando investigation. International Journal of Greenhouse Gas Control, 2019, 88, 393-402.	4.6	7
28	Multi-Scale Studies of 3D Printed Mn–Na–W/SiO2 Catalyst for Oxidative Coupling of Methane. Catalysts, 2021, 11, 290.	3.5	7
29	The Detection of Monoclinic Zirconia and Non-Uniform 3D Crystallographic Strain in a Re-Oxidized Ni-YSZ Solid Oxide Fuel Cell Anode. Crystals, 2020, 10, 941.	2.2	4