Antonios Vamvakeros

List of Publications by Year
in descending order

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29	1,082	394421	477307
papers	citations	19 h-index	29 g-index

32	32	32	1207
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Real-time tomographic diffraction imaging of catalytic membrane reactors for the oxidative coupling of methane. Catalysis Today, 2021, 364, 242-255.	4.4	19
3	Effect of thermal treatment on the stability of Naâ€“Mnâ€“W/SiO₂ catalyst for the oxidative coupling of methane. Faraday Discussions, 2021, 229, 176-196.	3.2	28
4	Multi-Scale Studies of 3D Printed Mnâ€“Naâ€“W/SiO2 Catalyst for Oxidative Coupling of Methane. Catalysts, 2021, 11, 290.	3.5	7
5	A deep convolutional neural network for real-time full profile analysis of big powder diffraction data. Npj Computational Materials, 2021, 7, .	8.7	31
6	Imaging Heterogeneous Electrocatalyst Stability and Decoupling Degradation Mechanisms in Operating Hydrogen Fuel Cells. ACS Energy Letters, 2021, 6, 2742-2749.	17.4	26
7	Cycling Rateâ€Induced Spatiallyâ€Resolved Heterogeneities in Commercial Cylindrical Liâ€Ion Batteries. Small Methods, 2021, 5, e2100512.	8.6	12
8	Multi-length scale 5D diffraction imaging of Niâ€“Pd/CeO₂â€“ZrO₂/Al₂O₃ catalyst during partial oxidation of methane. Journal of Materials Chemistry A, 2021, 9, 11331-11346.	10.3	12
9	In situ 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
10	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
11	ID15A at the ESRF â€“ a beamline for high speed operando X-ray diffraction, diffraction tomography and total scattering. Journal of Synchrotron Radiation, 2020, 27, 515-528.	2.4	85
12	Exploring cycling induced crystallographic change in NMC with X-ray diffraction computed tomography. Physical Chemistry Chemical Physics, 2020, 22, 17814-17823.	2.8	28
13	Multiscale investigation of adsorption properties of novel 3D printed UTSA-16 structures. Chemical Engineering Journal, 2020, 402, 126166.	12.7	55
14	Spatial quantification of dynamic inter and intra particle crystallographic heterogeneities within lithium ion electrodes. Nature Communications, 2020, 11, 631.	12.8	73
15	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
16	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
17	Sustainable iron-based oxygen carriers for hydrogen production â€“ Real-time operando investigation. International Journal of Greenhouse Gas Control, 2019, 88, 393-402.	4.6	7
18	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

#	Article	IF	Citations
19	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
20	Spatially Resolving Lithiation in Siliconâ€“Graphite Composite Electrodes via in Situ High-Energy X-ray Diffraction Computed Tomography. Nano Letters, 2019, 19, 3811-3820.	9.1	73
21	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
22	Operando and Postreaction Diffraction Imaging of the Laâ€“Sr/CaO Catalyst in the Oxidative Coupling of Methane Reaction. Journal of Physical Chemistry C, 2019, 123, 1751-1760.	3.1	28
23	5D operandoÂtomographic diffraction imaging of a catalyst bed. Nature Communications, 2018, 9, 4751.	12.8	76
24	X-ray physico-chemical imaging during activation of cobalt-based Fischerâ€“Tropsch synthesis catalysts. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170057.	3.4	17
25	Real-Time Scattering-Contrast Imaging of a Supported Cobalt-Based Catalyst Body during Activation and Fischerâ€“Tropsch Synthesis Revealing Spatial Dependence of Particle Size and Phase on Catalytic Properties. ACS Catalysis, 2017, 7, 2284-2293.	11.2	54
26	Chemical imaging of Fischer-Tropsch catalysts under operating conditions. Science Advances, 2017, 3, e1602838.	10.3	76
27	Interlaced X-ray diffraction computed tomography. Journal of Applied Crystallography, 2016, 49, 485-496.	4.5	40
28	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
29	Real time chemical imaging of a working catalytic membrane reactor during oxidative coupling of methane. Chemical Communications, 2015, 51, 12752-12755.	4.1	63