Chris Nicklin

List of Publications by Year
in descending order

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47 papers	818 citations	516710 16 h-index	501196 28 g-index
49 all docs	49 docs citations	49 times ranked	1625 citing authors

#	Article	IF	Citations
1	Atomistics of pre-nucleation layering of liquid metals at the interface with poor nucleants. Communications Chemistry, 2019, 2, .	4.5	115
2	The Nature of the Molybdenum Surface in Iron Molybdate. The Active Phase in Selective Methanol Oxidation. Journal of Physical Chemistry C, 2014, 118, 26155-26161.	3.1	56
3	Diamond beamline I07: a beamline for surface andÂinterface diffraction. Journal of Synchrotron Radiation, 2016, 23, 1245-1253.	2.4	51
4	Implementation of a beam deflection system for studies of liquid interfaces on beamline I07 at Diamond. Journal of Synchrotron Radiation, 2012, 19, 408-416.	2.4	38
5	Four-state ferroelectric spin-valve. Scientific Reports, 2015, 5, 9749.	3.3	38
6	Surface structure of Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>(111) determined by low-energy electron diffraction and surface x-ray diffraction. Physical Review B, 2013, 88, .	3.2	37
7	Direct Observation of Active Material Concentration Gradients and Crystallinity Breakdown in LiFePO₄ Electrodes During Charge/Discharge Cycling of Lithium Batteries. Journal of Physical Chemistry C, 2014, 118, 6548-6557.	3.1	36
8	Interface structure of Si(111)-(âˆš3 Ã— âˆš3)R30Â°-ErSi2 âˆ' x. Surface Science, 1996, 345, 247-260.	1.9	35
9	Atomic structure of the InSb(001)-c(8Ã—2) reconstruction determined by X-ray diffraction. Surface Science, 1998, 409, 27-36.	1.9	35
10	Atomic Diffusion within Individual Gold Nanocrystal. Scientific Reports, 2014, 4, 6765.	3.3	33
11	Water corrosion of spent nuclear fuel: radiolysis driven dissolution at the UO₂/water interface. Faraday Discussions, 2015, 180, 301-311.	3.2	28
12	Structure of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>SnO</mml:mi></mml:mrow><mml:mrow><mml:mn>2< stretchy="false">(</mml:mo><mml:mn>110</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (stretchy="false">)</mn stretchy="false">(</mml:mo><mml:mn>4</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>1</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Ov 0961	7.8	26
13	Molecular structure of the substrate-induced thin-film phase of tetracene. Journal of Chemical Physics, 2018, 149, 144701.	3.0	23
14	Real-time observation of graphene layer growth: Coupling of the interlayer spacing with thickness. Carbon, 2015, 94, 775-780.	10.3	19
15	Spin splitting and strain in epitaxial monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WSe</mml:mi><mml:mn>2</mml:mn></mml:msub></m on graphene. Physical Review B, 2020, 101, .	3.2	19
16	In situ phase behaviour of a high capacity LiCoPO₄ electrode during constant or pulsed charge of a lithium cell. Chemical Communications, 2016, 52, 14169-14172.	4.1	17
17	In situ observation of the orientation relationship at the interface plane between substrate and nucleus using X-ray scattering techniques. Scripta Materialia, 2014, 77, 60-63.	5.2	16
18	The growth of Sm on Mo(110) studied by surface X-ray diffraction. Physica B: Condensed Matter, 1996, 221, 86-89.	2.7	15

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19	Structure of a Superhydrophilic Surface: Wet Chemically Prepared Rutile-TiO₂(110)(1 Ã— 1). Journal of Physical Chemistry C, 2019, 123, 8463-8468.	3.1	15
20	Electronic properties of low-dimensional Sm films adsorbed on Cr(211) and Cr(110). Surface Science, 1993, 282, 1-9.	1.9	14
21	Capturing Surface Processes. Science, 2014, 343, 739-740.	12.6	13
22	Reversible restructuring of supported Au nanoparticles during butadiene hydrogenation revealed by operando GISAXS/GIWAXS. Chemical Communications, 2017, 53, 5159-5162.	4.1	13
23	The role of crystal orientation in the dissolution of UO2 thin films. Corrosion Science, 2018, 145, 162-169.	6.6	13
24	MINERVA: A facility to study Microstructure and INterface Evolution in Realtime under VAcuum. Review of Scientific Instruments, 2017, 88, 103901.	1.3	11
25	Bragg coherent diffraction imaging of iron diffusion into gold nanocrystals. New Journal of Physics, 2018, 20, 113026.	2.9	11
26	An X-ray diffraction study of oxide removal from InSb(001) substrates. Applied Surface Science, 1998, 123-124, 141-145.	6.1	10
27	Geometry of Î±-Cr₂O₃(0001) as a Function of H₂O Partial Pressure. Journal of Physical Chemistry C, 2015, 119, 21426-21433.	3.1	10
28	Fe Oxides on Ag Surfaces: Structure and Reactivity. Topics in Catalysis, 2017, 60, 492-502.	2.8	10
29	Microscopy and spectroscopy study of nanostructural phase transformation from Î²-MoO3 to Mo under UHV â€“ MBE conditions. Surface Science, 2019, 682, 64-74.	1.9	9
30	In Situ Observations of the Growth Mode of Vacuum-Deposited Î±-Sexithiophene. Journal of Physical Chemistry C, 2020, 124, 11863-11869.	3.1	9
31	Atomic structure of the InSb(001)-c(4 Ã— 4) reconstruction determined by X-ray diffraction. Surface Science, 1998, 398, 105-116.	1.9	8
32	Direct Photoalignment and Optical Patterning of Molecular Thin Films. Advanced Materials, 2017, 29, 1604382.	21.0	7
33	Structural study of Tm on Mo(110). Surface Science, 1992, 269-270, 700-706.	1.9	5
34	Oxygen modified growth of Gd on Mo(110). Surface Science, 1995, 331-333, 961-964.	1.9	4
35	In-situ observation of stacking fault evolution in vacuum-deposited C60. Applied Physics Letters, 2017, 111, 233305.	3.3	4
36	In-situ investigation of crystallization and structural evolution of a metallic glass in three dimensions at nano-scale. Materials and Design, 2020, 190, 108551.	7.0	4

#	Article	IF	Citations
37	An investigation of the growth and removal of protective antimony caps for antimonide epilayers. Thin Solid Films, 2006, 514, 198-203.	1.8	2
38	Silicon Î£13(501) grain boundary interface structure determined by bicrystal Bragg rod X-ray scattering. Acta Materialia, 2013, 61, 5694-5701.	7.9	2
39	A SURFACE X-RAY DIFFRACTION STUDY OF THE GROWTH OF ULTRATHIN LAYERS OF Fe ON Cu(001). Surface Review and Letters, 1994, 01, 631-634.	1.1	1
40	Valence state of low-dimensional thulium structures grown on molybdenum (110). Surface Science, 1994, 307-309, 858-862.	1.9	1
41	Atomic structure of CaF2/MnF2â€“Si(1â€‰1â€‰1) superlattices from X-ray diffraction. Applied Surface Science, 2007, 253, 3991-3999.	6.1	1
42	Exploring the Use of a Synchrotron X-Ray Scattering Method to Investigate Nucleation. Materials Science Forum, 0, 765, 102-106.	0.3	1
43	GCRFâ€“START Launch Event. Synchrotron Radiation News, 2019, 32, 4-6.	0.8	1
44	X-Ray Diffraction Studies of the InSb(001) Surface. Japanese Journal of Applied Physics, 1999, 38, 301.	1.5	1
45	Interfacial rearrangements and strain evolution in the thin film growth of ZnPc on glass. Physical Review Materials, 2022, 6, .	2.4	1
46	Managing BHJ microstructural evolution for long-term photoconversion efficiency (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	0	
47	Structure of Strained Lowâ€Dimensional Sb by In Situ Surface Xâ€Ray Diffraction. Physica Status Solidi (B): Basic Research, 0, , 2100432.	1.5	0