Mark Sutton

List of Publications by Year in descending order

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304743 223800 2,133 72 22 46 citations h-index g-index papers 73 73 73 2017 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Extremely Slow Diffusion of Gold Nanoparticles under Confinement in Mesoporous Silica. Journal of Physical Chemistry C, 2022, 126, 3614-3622.	3.1	3
2	High resolution strain measurements in highly disordered materials. Physical Review Research, 2021, 3, \cdot	3.6	7
3	Mechanisms of electron-phonon coupling unraveled in momentum and time: The case of soft phonons in TiSe ₂ . Science Advances, 2021, 7, .	10.3	38
4	Nonuniform Flow Dynamics Probed by Nanosecond X-Ray Speckle Visibility Spectroscopy. Physical Review Letters, 2021, 127, 058001.	7.8	9
5	Generation of highly mutually coherent hard-x-ray pulse pairs with an amplitude-splitting delay line. Physical Review Research, 2021, 3, .	3.6	7
6	A Contrast Calibration Protocol for X-ray Speckle Visibility Spectroscopy. Applied Sciences (Switzerland), 2021, 11, 10041.	2.5	3
7	Ultrafast Electron Scattering: Femtosecond Electron Pulses in Materials Research. , 2021, , .		O
8	Simultaneous, Single-Particle Measurements of Size and Loading Give Insights into the Structure of Drug-Delivery Nanoparticles. ACS Nano, 2021, 15, 19244-19255.	14.6	23
9	Speckle correlation as a monitor of X-ray free-electron laser induced crystal lattice deformation. Journal of Synchrotron Radiation, 2020, 27, 1470-1476.	2.4	1
10	Influence of Silane Coupling Agents on Filler Network Structure and Stress-Induced Particle Rearrangement in Elastomer Nanocomposites. ACS Applied Materials & Diterfaces, 2020, 12, 47891-47901.	8.0	15
11	Universal dynamics of coarsening during polymer-polymer thin-film spinodal dewetting kinetics. Physical Review E, 2020, 102, 032802.	2.1	5
12	Double-pulse speckle contrast correlations with near Fourier transform limited free-electron laser light using hard X-ray split-and-delay. Scientific Reports, 2020, 10, 5054.	3.3	7
13	Realizing split-pulse x-ray photon correlation spectroscopy to measure ultrafast dynamics in complex matter. Physical Review Research, 2020, 2, .	3.6	12
14	Accurate contrast determination for X-ray speckle visibility spectroscopy. Journal of Synchrotron Radiation, 2020, 27, 999-1007.	2.4	13
15	Design of an amplitude-splitting hard x-ray delay line with subnanoradian stability. Optics Letters, 2020, 45, 2086.	3.3	5
16	Ultrafast correlated charge and lattice motion in a hybrid metal halide perovskite. Science Advances, 2019, 5, eaaw5558.	10.3	66
17	Time- and momentum-resolved phonon population dynamics with ultrafast electron diffuse scattering. Physical Review B, 2019, 100, .	3.2	33
18	Coherent charge-phonon correlations and exciton dynamics in orthorhombic CH3NH3PbI3 measured by ultrafast multi-THz spectroscopy. Journal of Chemical Physics, 2019, 151, 214201.	3.0	6

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19	Compact hard x-ray split-delay system based on variable-gap channel-cut crystals. Optics Letters, 2019, 44, 2582.	3.3	18
20	Mapping momentum-dependent electron-phonon coupling and nonequilibrium phonon dynamics with ultrafast electron diffuse scattering. Physical Review B, $2018, 97, .$	3.2	81
21	Towards ultrafast dynamics with split-pulse X-ray photon correlation spectroscopy at free electron laser sources. Nature Communications, 2018, 9, 1704.	12.8	55
22	Sub-microsecond-resolved multi-speckle X-ray photon correlation spectroscopy with a pixel array detector. Journal of Synchrotron Radiation, 2018, 25, 1408-1416.	2.4	41
23	Measuring the dynamical critical exponent of an ordering alloy using x-ray photon correlation spectroscopy. Physical Review B, 2018, 98, .	3.2	4
24	Velocity measurement by coherent x-ray heterodyning. Review of Scientific Instruments, 2017, 88, 015112.	1.3	19
25	Dewetting in immiscible polymer bilayer films. Physical Review Materials, 2017, 1, .	2.4	7
26	Software tools for X-ray photon correlation and X-ray speckle visibility spectroscopy., 2016,,.		9
27	Reversible Nanoparticle Cubic Lattices in Blue Phase Liquid Crystals. ACS Nano, 2016, 10, 3410-3415.	14.6	66
28	First experimental feasibility study of VIPIC: a custom-made detector for X-ray speckle measurements. Journal of Synchrotron Radiation, 2016, 23, 404-409.	2.4	9
29	Ordering fluctuation dynamics inAuAgZn2. Physical Review B, 2015, 92, .	3.2	10
30	Experimental clues of soft glassy rheology in strained filled elastomers. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 647-656.	2.1	13
31	High Contrast X-ray Speckle from Atomic-Scale Order in Liquids and Glasses. Physical Review Letters, 2012, 109, 185502.	7.8	97
32	XPCS Investigation of the Dynamics of Filler Particles in Stretched Filled Elastomers. Macromolecules, 2012, 45, 8691-8701.	4.8	44
33	Sodium — Excess selenium interaction in Bridgman-grown CulnSe <inf>2</inf> ., 2011, , .		1
34	Direct Measurement of Microstructural Avalanches during the Martensitic Transition of Cobalt Using Coherent X-Ray Scattering. Physical Review Letters, 2011, 107, 015702.	7.8	26
35	Investigation of Stress Relaxation in Filled Elastomers by XPCS with Heterodyne Detection. , 2009, , .		3
36	A review of X-ray intensity fluctuation spectroscopy. Comptes Rendus Physique, 2008, 9, 657-667.	0.9	141

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37	Ruthenium nano-oxide layer in CoFe-Ru-CoFe trilayer system: An x-ray reflectivity study. Journal of Applied Physics, 2008, 103, 094904.	2.5	1
38	X-ray diffraction imaging of strain fields in a domain-inverted LiTaO3 crystal. Journal of Applied Physics, 2008, 104, 043515.	2.5	6
39	X-ray microdiffraction imaging of a silicon microcantilever. Journal of Applied Physics, 2007, 101, 063546.	2.5	4
40	An x-ray confinement cell for studies of complex fluids under shear and confinement. Review of Scientific Instruments, 2004, 75, 936-941.	1.3	3
41	Kalman-Predictive-Proportional-Integral-Derivative (KPPID) Temperature Control. AIP Conference Proceedings, 2003, , .	0.4	1
42	Workshop report: Science with the XFEL. AIP Conference Proceedings, 2001, , .	0.4	0
43	Hydrogen desorption mechanism inMgH2â^'Nbnanocomposites. Physical Review B, 2001, 63, .	3.2	149
44	Small Angle Scattering and the Structure and Dynamics of Filled and Unfilled Rubbers. Materials Research Society Symposia Proceedings, 2000, 661, KK9.1.1.	0.1	0
45	Creating coherent x-rays and putting them to use: X-ray photon correlation spectroscopy at beamline 8-1d at the advanced photon source. Synchrotron Radiation News, 2000, 13, 28-37.	0.8	5
46	Area detector based photon correlation in the regime of short data batches: Data reduction for dynamic x-ray scattering. Review of Scientific Instruments, 2000, 71, 3274-3289.	1.3	132
47	Evolution of speckle during spinodal decomposition. Physical Review E, 1999, 60, 5151-5162.	2.1	22
48	Coherent X-Ray Study of Fluctuations during Domain Coarsening. Physical Review Letters, 1998, 81, 5832-5835.	7.8	102
49	Critical behavior at the nematic to lamellar phase transitions: A synchrotron x-ray scattering study. Physical Review E, 1998, 57, R3711-R3714.	2.1	3
50	Speckle from phase-ordering systems. Physical Review E, 1997, 56, 6601-6612.	2.1	60
51	Dynamics of Block Copolymer Micelles Revealed by X-Ray Intensity Fluctuation Spectroscopy. Physical Review Letters, 1997, 78, 1275-1278.	7.8	123
52	Deposition-temperature dependence of texture and magnetic properties of sputtered Ni/Fe multilayers. Journal of Applied Physics, 1997, 81, 4758-4760.	2.5	7
53	MeV ion irradiation of Co/Cu multilayers. Journal of Applied Physics, 1997, 81, 5200-5202.	2.5	36
54	lon Beam Mixing and Thermal Demixing of Co/Cu Multilayers. Materials Research Society Symposia Proceedings, 1997, 504, 197.	0.1	3

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55	Structural Studies of Sputtered Ni80Co20/Cu Multilayers. Materials Research Society Symposia Proceedings, 1995, 382, 197.	0.1	1
56	Perfect Crystals in the Asymmetric Bragg Geometry as Optical Elements for Coherent X-ray Beams. Journal of Synchrotron Radiation, 1995, 2, 163-173.	2.4	28
57	A statistical technique for characterizing X-ray position-sensitive detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 364, 380-393.	1.6	12
58	Model of the Kinetics of Polymorphous Crystallization. Physical Review Letters, 1995, 75, 2156-2159.	7.8	40
59	Cumulative interface roughness and magnetization in antiferromagnetically coupled NiCo/Cumultilayers. Journal of Applied Physics, 1994, 76, 7084-7086.	2.5	6
60	Structural and magnetotransport properties of Co/Re superlattices. Journal of Applied Physics, 1994, 75, 6554-6556.	2.5	1
61	Study of density in pulsedâ€laser deposited amorphous carbon films using xâ€ray reflectivity. Applied Physics Letters, 1994, 65, 830-832.	3.3	46
62	Xâ€ray structural studies of nitrogen diffusion in Dy2Fe17. Journal of Applied Physics, 1994, 76, 6038-6040.	2.5	4
63	Time-resolved X-ray scattering studies of rapid crystallization of amorphous metals. International Journal of Thermophysics, 1993, 14, 541-553.	2.1	0
64	Effect of annealing on magnetic and structural properties of Co/Re superlattices. Journal of Applied Physics, 1993, 73, 5530-5532.	2.5	8
65	Temperature dependence of deep-level photoluminescence in Ga0.5In0.5P epilayers grown by metal-organic chemical vapour deposition. Journal of Materials Science Letters, 1993, 12, 53-55.	0.5	1
66	High Resolution X-Ray Studies of Ga1–xInxAs Epilayers on GaAs Substrates. Materials Research Society Symposia Proceedings, 1991, 239, 461.	0.1	0
67	In-Situ Time-Resolved X-Ray Studies of Eutectic Crystallization in Amorphous Fe1â^'xBx and Co1â^'xZrx. Materials Research Society Symposia Proceedings, 1991, 237, 159.	0.1	0
68	Structural Properties Of Co/Re Superlattices. Materials Research Society Symposia Proceedings, 1991, 238, 671.	0.1	7
69	Observation of speckle by diffraction with coherent X-rays. Nature, 1991, 352, 608-610.	27.8	371
70	Polymorphic Crystallization of Metal-Metalloid-Glasses above the Glass Transition Temperature. Materials Research Society Symposia Proceedings, 1990, 205, 233.	0.1	1
71	Instrumentation for millisecondâ€resolution scattering studies (invited). Review of Scientific Instruments, 1989, 60, 1537-1540.	1.3	53
72	Modelling the statics and the dynamics of fluctuations in the ordering alloy AuAgZn2. EPJ Applied Physics, 0, , .	0.7	0