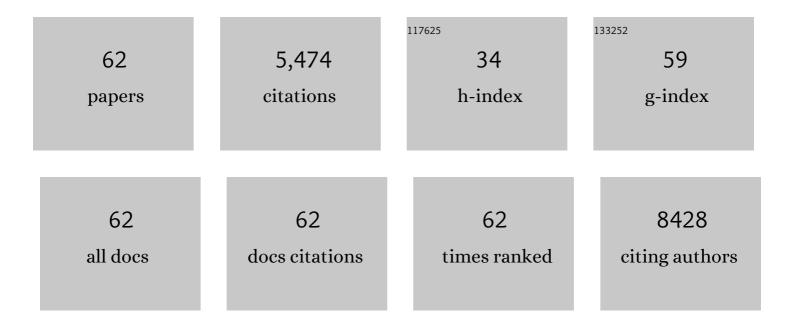
Aaron M Lindenberg

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Bismuth-Halide Double Perovskite with Long Carrier Recombination Lifetime for Photovoltaic Applications. Journal of the American Chemical Society, 2016, 138, 2138-2141.	13.7	1,514
2	Mechanism for Broadband White-Light Emission from Two-Dimensional (110) Hybrid Perovskites. Journal of Physical Chemistry Letters, 2016, 7, 2258-2263.	4.6	428
3	Structural origins of broadband emission from layered Pb–Br hybrid perovskites. Chemical Science, 2017, 8, 4497-4504.	7.4	419
4	An ultrafast symmetry switch in a Weyl semimetal. Nature, 2019, 565, 61-66.	27.8	307
5	Observation of Transient Structural-Transformation Dynamics in a Cu ₂ S Nanorod. Science, 2011, 333, 206-209.	12.6	220
6	Reversible Optical Switching of Infrared Antenna Resonances with Ultrathin Phase-Change Layers Using Femtosecond Laser Pulses. ACS Photonics, 2014, 1, 833-839.	6.6	181
7	Ultrafast Photovoltaic Response in Ferroelectric Nanolayers. Physical Review Letters, 2012, 108, 087601.	7.8	150
8	Light-induced picosecond rotational disordering of the inorganic sublattice in hybrid perovskites. Science Advances, 2017, 3, e1602388.	10.3	149
9	Femtosecond x-ray diffraction reveals a liquid–liquid phase transition in phase-change materials. Science, 2019, 364, 1062-1067.	12.6	120
10	Steam-created grain boundaries for methane C–H activation in palladium catalysts. Science, 2021, 373, 1518-1523.	12.6	105
11	Berry curvature memory through electrically driven stacking transitions. Nature Physics, 2020, 16, 1028-1034.	16.7	100
12	Visualization of dynamic polaronic strain fields in hybrid lead halide perovskites. Nature Materials, 2021, 20, 618-623.	27.5	96
13	Dynamic Structural Response and Deformations of Monolayer MoS ₂ Visualized by Femtosecond Electron Diffraction. Nano Letters, 2015, 15, 6889-6895.	9.1	93
14	A setup for ultrafast time-resolved x-ray absorption spectroscopy. Review of Scientific Instruments, 2004, 75, 24-30.	1.3	91
15	Terahertz Emission from Hybrid Perovskites Driven by Ultrafast Charge Separation and Strong Electron–Phonon Coupling. Advanced Materials, 2018, 30, 1704737.	21.0	86
16	Electrochemical ion insertion from the atomic to the device scale. Nature Reviews Materials, 2021, 6, 847-867.	48.7	84
17	Single-cycle terahertz pulses with >0.2 V/à field amplitudes via coherent transition radiation. Applied Physics Letters, 2011, 99, .	3.3	74
18	Color Switching with Enhanced Optical Contrast in Ultrathin Phase-Change Materials and Semiconductors Induced by Femtosecond Laser Pulses. ACS Photonics, 2015, 2, 178-182.	6.6	74

#	Article	IF	CITATIONS
19	Probing the hydrogen-bond network of water via time-resolved soft X-ray spectroscopy. Physical Chemistry Chemical Physics, 2009, 11, 3951.	2.8	71
20	Subterahertz collective dynamics of polar vortices. Nature, 2021, 592, 376-380.	27.8	66
21	Picosecond Electric-Field-Induced Threshold Switching in Phase-Change Materials. Physical Review Letters, 2016, 117, 067601.	7.8	59
22	Universal phase dynamics in VO ₂ switches revealed by ultrafast operando diffraction. Science, 2021, 373, 352-355.	12.6	53
23	Direct observation of ultrafast hydrogen bond strengthening in liquid water. Nature, 2021, 596, 531-535.	27.8	53
24	Recording interfacial currents on the subnanometer length and femtosecond time scale by terahertz emission. Science Advances, 2019, 5, eaau0073.	10.3	50
25	Ultrafast Electronic and Structural Response of Monolayer MoS ₂ under Intense Photoexcitation Conditions. ACS Nano, 2014, 8, 10734-10742.	14.6	49
26	Ultrafast Terahertz Gating of the Polarization and Giant Nonlinear Optical Response in BiFeO ₃ Thin Films. Advanced Materials, 2015, 27, 6371-6375.	21.0	47
27	Transient terahertz photoconductivity measurements of minority-carrier lifetime in tin sulfide thin films: Advanced metrology for an early stage photovoltaic material. Journal of Applied Physics, 2016, 119, .	2.5	47
28	Ultrafast conversions between hydrogen bonded structures in liquid water observed by femtosecond x-ray spectroscopy. Journal of Chemical Physics, 2009, 131, 234505.	3.0	46
29	THz-Pulse-Induced Selective Catalytic CO Oxidation on Ru. Physical Review Letters, 2015, 115, 036103.	7.8	46
30	Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides. Nano Letters, 2017, 17, 7761-7766.	9.1	46
31	How Supercooled Liquid Phase-Change Materials Crystallize: Snapshots after Femtosecond Optical Excitation. Chemistry of Materials, 2015, 27, 5641-5646.	6.7	44
32	Bulk and Nanocrystalline Cesium Lead-Halide Perovskites as Seen by Halide Magnetic Resonance. ACS Central Science, 2020, 6, 1138-1149.	11.3	43
33	Visualization of Atomic-Scale Motions in Materials via Femtosecond X-Ray Scattering Techniques. Annual Review of Materials Research, 2017, 47, 425-449.	9.3	39
34	Ultrafast terahertz-induced response of GeSbTe phase-change materials. Applied Physics Letters, 2014, 104, .	3.3	38
35	Light-Induced Currents at Domain Walls in Multiferroic BiFeO ₃ . Nano Letters, 2020, 20, 145-151.	9.1	36
36	Twist-Angle-Dependent Ultrafast Charge Transfer in MoS ₂ -Graphene van der Waals Heterostructures. Nano Letters, 2021, 21, 8051-8057.	9.1	30

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37	Anisotropic structural dynamics of monolayer crystals revealed by femtosecond surface X-ray scattering. Nature Photonics, 2019, 13, 425-430.	31.4	28
38	Visualization of nanocrystal breathing modes at extreme strains. Nature Communications, 2015, 6, 6577.	12.8	26
39	Real-Time Visualization of Nanocrystal Solid–Solid Transformation Pathways. Nano Letters, 2014, 14, 1995-1999.	9.1	24
40	Time―and Temperatureâ€Independent Local Carrier Mobility and Effects of Regioregularity in Polymerâ€Fullerene Organic Semiconductors. Advanced Electronic Materials, 2016, 2, 1500351.	5.1	23
41	High-speed all-optical terahertz polarization switching by a transient plasma phase modulator. Applied Physics Letters, 2010, 96, 161103.	3.3	22
42	Interlayer magnetophononic coupling in MnBi2Te4. Nature Communications, 2022, 13, 1929.	12.8	22
43	High-pressure Raman spectroscopy of phase change materials. Applied Physics Letters, 2013, 103, .	3.3	21
44	Nonequilibrium Thermodynamics of Colloidal Gold Nanocrystals Monitored by Ultrafast Electron Diffraction and Optical Scattering Microscopy. ACS Nano, 2020, 14, 4792-4804.	14.6	20
45	Dynamic lattice distortions driven by surface trapping in semiconductor nanocrystals. Nature Communications, 2021, 12, 1860.	12.8	19
46	Ultrafast light-induced symmetry changes in single BaTiO ₃ nanowires. Journal of Materials Chemistry C, 2017, 5, 1522-1528.	5.5	16
47	Highly Efficient Uniaxial Inâ€Plane Stretching of a 2D Material via Ion Insertion. Advanced Materials, 2021, 33, e2101875.	21.0	16
48	Ultrafast Polarization Response of an Optically Trapped Single Ferroelectric Nanowire. Nano Letters, 2014, 14, 4322-4327.	9.1	13
49	Visualizing Energy Transfer at Buried Interfaces in Layered Materials Using Picosecond Xâ€Rays. Advanced Functional Materials, 2020, 30, 2002282.	14.9	11
50	Atomic-scale imaging of ultrafast materials dynamics. MRS Bulletin, 2018, 43, 485-490.	3.5	10
51	Observation of a Novel Lattice Instability in Ultrafast Photoexcited SnSe. Physical Review X, 2022, 12, .	8.9	10
52	Nanoscale Disorder Generates Subdiffusive Heat Transport in Self-Assembled Nanocrystal Films. Nano Letters, 2021, 21, 3540-3547.	9.1	7
53	<scp>Inq</scp> , a Modern GPU-Accelerated Computational Framework for (Time-Dependent) Density Functional Theory. Journal of Chemical Theory and Computation, 2021, 17, 7447-7467.	5.3	7
54	Dynamically Tunable Terahertz Emission Enabled by Anomalous Optical Phonon Responses in Lead Telluride. ACS Photonics, 2021, 8, 3633-3640.	6.6	7

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55	Acceleration of Crystallization Kinetics in Geâ€Sbâ€Teâ€Based Phaseâ€Change Materials by Substitution of Ge by Sn. Advanced Functional Materials, 2021, 31, 2004803.	14.9	5
56	Dynamic structural views in solar energy materials by femtosecond electron diffraction. MRS Bulletin, 2021, 46, 704-710.	3.5	5
57	Structural imaging of nanoscale phonon transport in ferroelectrics excited by metamaterial-enhanced terahertz fields. Physical Review Materials, 2017, 1, .	2.4	5
58	Terahertz Emission: Terahertz Emission from Hybrid Perovskites Driven by Ultrafast Charge Separation and Strong Electron–Phonon Coupling (Adv. Mater. 11/2018). Advanced Materials, 2018, 30, 1870079.	21.0	2
59	Thermal Boundary Conductance: Visualizing Energy Transfer at Buried Interfaces in Layered Materials Using Picosecond Xâ€Rays (Adv. Funct. Mater. 34/2020). Advanced Functional Materials, 2020, 30, 2070232.	14.9	1
60	Synthesis of Macroscopic Single Crystals of Ge2Sb2Te5 via Single-Shot Femtosecond Optical Excitation. Crystal Growth and Design, 2020, 20, 6660-6667.	3.0	0
61	Monitoring Charge Separation Dynamics Using THz Emission Spectroscopy. , 2019, , .		0
62	Measuring Electron-Phonon Coupling induced Lattice Reorganization in Lead Halide Perovskite Nanocrystals through Femto-Second Resolved Optical-pump Diffraction-probe experiments. , 0, , .		0