Nuh Gedik

List of Publications by Year
in descending order

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58 papers	4,392 citations	147801 31 h-index	155660 55 g-index
61 all docs	61 docs citations	61 times ranked	6063 citing authors

#	Article	IF	Citations
1	Valley-selective optical Stark effect in monolayerÂWS2. Nature Materials, 2015, 14, 290-294.	27.5	479
2	Observation of the nonlinear Hall effect under time-reversal-symmetric conditions. Nature, 2019, 565, 337-342.	27.8	372
3	Direct optical detection of Weyl fermion chirality in a topological semimetal. Nature Physics, 2017, 13, 842-847.	16.7	291
4	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe2. Nature Physics, 2018, 14, 900-906.	16.7	249
5	Selective scattering between Floquetâ€“Bloch and Volkov states in a topological insulator. Nature Physics, 2016, 12, 306-310.	16.7	242
6	Valleytronics: Opportunities, Challenges, and Paths Forward. Small, 2018, 14, e1801483.	10.0	221
7	Nonequilibrium Phase Transitions in Cuprates Observed by Ultrafast Electron Crystallography. Science, 2007, 316, 425-429.	12.6	210
8	Unconventional ferroelectricity in moirÃ© heterostructures. Nature, 2020, 588, 71-76.	27.8	165
9	Intervalley biexcitons and many-body effects in monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2015, 92, .	3.2	165
10	Light-induced charge density wave in LaTe3. Nature Physics, 2020, 16, 159-163.	16.7	157
11	Evidence for topological defects in a photoinduced phase transition. Nature Physics, 2019, 15, 27-31.	16.7	128
12	Tuning ultrafast electron thermalization pathways in a van der Waals heterostructure. Nature Physics, 2016, 12, 455-459.	16.7	127
13	Observation of Exciton Redshiftâ€“Blueshift Crossover in Monolayer WS₂. Nano Letters, 2017, 17, 4210-4216.	9.1	107
14	Evidence for a single-layer van der Waals multiferroic. Nature, 2022, 602, 601-605.	27.8	104
15	Large, valley-exclusive Bloch-Siegert shift in monolayer WS ₂. Science, 2017, 355, 1066-1069.	12.6	102
16	Direct measurement of proximity-induced magnetism at the interface between a topological insulator and a ferromagnet. Nature Communications, 2016, 7, 12014.	12.8	83
17	Spontaneous gyrotropic electronic order in a transition-metal dichalcogenide. Nature, 2020, 578, 545-549.	27.8	80
18	Ultrafast manipulation of mirror domain walls in a charge density wave. Science Advances, 2018, 4, eaau5501.	10.3	70

#	Article	IF	Citations
19	Time-resolvedÂXUV ARPES with tunable 24â€“33â€‰eV laser pulses at 30â€‰meV resolution. Nature Communications, 2019, 10, 3535.	12.8	69
20	Band-dependent Quasiparticle Dynamics in Single Crystals of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mn>0.6</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">K</mml:mi><mml:mn>0.4</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mn>2</mml:mn></m Revealed by Pump-Probe Spectroscopy. Physical Review Letters, 2010, 105, 027005.	7.8	64
21	Topology on a new facet of bismuth. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13255-13259.	7.1	61
22	Giant intrinsic photoresponse in pristine graphene. Nature Nanotechnology, 2019, 14, 145-150.	31.5	61
23	Dynamical Slowing-Down in an Ultrafast Photoinduced Phase Transition. Physical Review Letters, 2019, 123, 097601.	7.8	50
24	Observation of Intervalley Biexcitonic Optical Stark Effect in Monolayer WS₂. Nano Letters, 2016, 16, 7421-7426.	9.1	49
25	Circular dichroism in angleâ€resolved photoemission spectroscopy of topological insulators. Physica Status Solidi - Rapid Research Letters, 2013, 7, 64-71.	2.4	46
26	Confinement-Deconfinement Transition as an Indication of Spin-Liquid-Type Behavior in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Na</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mr Physical Review Letters, 2015, 114, 017203.	7.8	46
27	Asymmetric hot-carrier thermalization and broadband photoresponse in graphene-2D semiconductor lateral heterojunctions. Science Advances, 2019, 5, eaav1493.	10.3	43
28	Observation of Excitonâ€“Exciton Interaction Mediated Valley Depolarization in Monolayer MoSe₂. Nano Letters, 2018, 18, 223-228.	9.1	39
29	Exciton-driven antiferromagnetic metal in a correlated van der Waals insulator. Nature Communications, 2021, 12, 4837.	12.8	39
30	Electrostatic Coupling between Two Surfaces of a Topological Insulator Nanodevice. Physical Review Letters, 2014, 113, 206801.	7.8	33
31	Absolute phase measurement in heterodyne detection of transient gratings. Optics Letters, 2004, 29, 2109.	3.3	32
32	High resolution time- and angle-resolved photoemission spectroscopy with 11 eV laser pulses. Review of Scientific Instruments, 2020, 91, 043102.	1.3	32
33	Electron Pulse Compression With a Practical Reflectron Design for Ultrafast Electron Diffraction. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 140-147.	2.9	31
34	Nonequilibrium quasiparticle relaxation dynamics in single crystals of hole- and electron-doped BaFe<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>As<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>. Physical Review B, 2011, 84, .	3.2	29
35	Topological crystalline insulator states in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ca</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mr family. Physical Review B, 2018, 98, .	3.2	28
36	Self-similar dynamics of order parameter fluctuations in pump-probe experiments. Physical Review B, 2020, 101, .	3.2	27

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37	Discovery of the soft electronic modes of the trimeron order in magnetite. Nature Physics, 2020, 16, 541-545.	16.7	26
38	Photoemission of quantum materials. Nature Physics, 2017, 13, 1029-1033.	16.7	25
39	Magnetically brightened dark electron-phonon bound states in a van der Waals antiferromagnet. Nature Communications, 2022, 13, 98.	12.8	21
40	Rapid and precise determination of zero-field splittings by terahertz time-domain electron paramagnetic resonance spectroscopy. Chemical Science, 2017, 8, 7312-7323.	7.4	20
41	Amplitude dynamics of the charge density wave in LaTe3 : Theoretical description of pump-probe experiments. Physical Review B, 2020, 101, .	3.2	19
42	Phonoritons as Hybridized Exciton-Photon-Phonon Excitations in a Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>h</mml:mi></mml:math> -BN Optical Cavity. Physical Review Letters, 2021, 126, 227401.	7.8	18
43	Magnetic field-dependent low-energy magnon dynamics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi><mml:mo>â€“</mml:mo><mml:msub><mml:mi>RuCl</mml:mi> Physical Review B, 2019, 100, .	3.2	16
44	Role of Equilibrium Fluctuations in Light-Induced Order. Physical Review Letters, 2021, 127, 227401.	7.8	16
45	Room Temperature Terahertz Electroabsorption Modulation by Excitons in Monolayer Transition Metal Dichalcogenides. Nano Letters, 2020, 20, 5214-5220.	9.1	14
46	Second harmonic generation as a probe of broken mirror symmetry. Physical Review B, 2020, 101, .	3.2	14
47	Unconventional Hysteretic Transition in a Charge Density Wave. Physical Review Letters, 2022, 128, 036401.	7.8	14
48	Charge transfer in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mtext>EuS/Bi</mml:mtext> heterostructures as indicated by the absence of Raman scattering. Physical Review B, 2018, 98, .	3.2	12
49	Unconventional light-induced states visualized by ultrafast electron diffraction and microscopy. MRS Bulletin, 2021, 46, 720-730.	3.5	12
50	A versatile sample fabrication method for ultrafast electron diffraction. Ultramicroscopy, 2021, 230, 113389.	1.9	10
51	Trimeron-phonon coupling in magnetite. Physical Review B, 2021, 103, .	3.2	8
52	Optical Stark effect in 2D semiconductors. Proceedings of SPIE, 2016, , .	0.8	6
53	Origin of the exciton mass in the frustrated Mott insulator Na2IrO3. Physical Review B, 2017, 96, .	3.2	5
54	Spatially modulated magnetic structure of EuS due to the tetragonal domain structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn> Physical Review Materials, 2017, 1, .	2.4	3

#	Article	IF	Citations
55	Lighting up superconducting stripes. Science, 2018, 359, 519-519.	12.6	1
56	Inside Back Cover: Circular dichroism in angle-resolved photoemission spectroscopy of topological insulators (Phys. Status Solidi RRL 1-2/2013). Physica Status Solidi - Rapid Research Letters, 2013, 7, n/a-n/a.	2.4	0
57	10.1063/1.5139556.1. , 2020, , .		0
58	Terahertz Field-Induced Reemergence of Quenched Photoluminescence in Quantum Dots. Nano Letters, 2022, , .	9.1	0