

Nuh Gedik

List of Publications by Year in descending order

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Version: 2024-02-01

58

papers

4,392

citations

147801

31

h-index

155660

55

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61

all docs

61

docs citations

61

times ranked

6063

citing authors

#	ARTICLE		IF	CITATIONS
1	Magnetically brightened dark electron-phonon bound states in a van der Waals antiferromagnet. Nature Communications, 2022, 13, 98.		12.8	21
2	Unconventional Hysteretic Transition in a Charge Density Wave. Physical Review Letters, 2022, 128, 036401.		7.8	14
3	Terahertz Field-Induced Reemergence of Quenched Photoluminescence in Quantum Dots. Nano Letters, 2022, ., .		9.1	0
4	Evidence for a single-layer van der Waals multiferroic. Nature, 2022, 602, 601-605.		27.8	104
5	Trimeron-phonon coupling in magnetite. Physical Review B, 2021, 103, .		3.2	8
6	Phonoritons as Hybridized Exciton-Photon-Phonon Excitations in a Monolayer h-BN Optical Cavity. Physical Review Letters, 2021, 126, 227401.		7.8	18
7	Unconventional light-induced states visualized by ultrafast electron diffraction and microscopy. MRS Bulletin, 2021, 46, 720-730.		3.5	12
8	Exciton-driven antiferromagnetic metal in a correlated van der Waals insulator. Nature Communications, 2021, 12, 4837.		12.8	39
9	A versatile sample fabrication method for ultrafast electron diffraction. Ultramicroscopy, 2021, 230, 113389.		1.9	10
10	Role of Equilibrium Fluctuations in Light-Induced Order. Physical Review Letters, 2021, 127, 227401.		7.8	16
11	Light-induced charge density wave in LaTe3. Nature Physics, 2020, 16, 159-163.		16.7	157
12	Unconventional ferroelectricity in moiré heterostructures. Nature, 2020, 588, 71-76.		27.8	165
13	Self-similar dynamics of order parameter fluctuations in pump-probe experiments. Physical Review B, 2020, 101, .		3.2	27
14	Room Temperature Terahertz Electroabsorption Modulation by Excitons in Monolayer Transition Metal Dichalcogenides. Nano Letters, 2020, 20, 5214-5220.		9.1	14
15	Second harmonic generation as a probe of broken mirror symmetry. Physical Review B, 2020, 101, .		3.2	14
16	Discovery of the soft electronic modes of the trimeron order in magnetite. Nature Physics, 2020, 16, 541-545.		16.7	26
17	Spontaneous gyrotropic electronic order in a transition-metal dichalcogenide. Nature, 2020, 578, 545-549.		27.8	80
18	Amplitude dynamics of the charge density wave in LaTe3 : Theoretical description of pump-probe experiments. Physical Review B, 2020, 101, .		3.2	19

#	ARTICLE		IF	CITATIONS
19	High resolution time- and angle-resolved photoemission spectroscopy with 11 eV laser pulses. <i>Review of Scientific Instruments</i> , 2020, 91, 043102.		1.3	32
20	10.1063/1.5139556.1., 2020, , .		0	
21	Time-resolved XUV ARPES with tunable 24–33 eV laser pulses at 30 meV resolution. <i>Nature Communications</i> , 2019, 10, 3535.		12.8	69
22	Magnetic field-dependent low-energy magnon dynamics in RuCl ₃ . <i>Physical Review B</i> , 2019, 100, .			
23	Dynamical Slowing-Down in an Ultrafast Photoinduced Phase Transition. <i>Physical Review Letters</i> , 2019, 123, 097601.		7.8	50
24	Asymmetric hot-carrier thermalization and broadband photoresponse in graphene-2D semiconductor lateral heterojunctions. <i>Science Advances</i> , 2019, 5, eaav1493.		10.3	43
25	Topology on a new facet of bismuth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13255-13259.		7.1	61
26	Giant intrinsic photoresponse in pristine graphene. <i>Nature Nanotechnology</i> , 2019, 14, 145-150.		31.5	61
27	Observation of the nonlinear Hall effect under time-reversal-symmetric conditions. <i>Nature</i> , 2019, 565, 337-342.		27.8	372
28	Evidence for topological defects in a photoinduced phase transition. <i>Nature Physics</i> , 2019, 15, 27-31.		16.7	128
29	Lighting up superconducting stripes. <i>Science</i> , 2018, 359, 519-519.		12.6	1
30	Observation of Exciton–Exciton Interaction Mediated Valley Depolarization in Monolayer MoSe ₂ . <i>Nano Letters</i> , 2018, 18, 223-228.		9.1	39
31	Topological crystalline insulator states in the Ca ₃ Mo ₃ S ₂ family. <i>Physical Review B</i> , 2018, 98, .			
32	Ultrafast manipulation of mirror domain walls in a charge density wave. <i>Science Advances</i> , 2018, 4, eaau5501.		10.3	70
33	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe ₂ . <i>Nature Physics</i> , 2018, 14, 900-906.		16.7	249
34	Charge transfer in EuS/Bi ₂ Te ₂ heterostructures as indicated by the absence of Raman scattering. <i>Physical Review B</i> , 2018, 98, .			
35	Valleytronics: Opportunities, Challenges, and Paths Forward. <i>Small</i> , 2018, 14, e1801483.		10.0	221
36	Large, valley-exclusive Bloch-Siegert shift in monolayer WS ₂ . <i>Science</i> , 2017, 355, 1066-1069.		12.6	102

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37	Rapid and precise determination of zero-field splittings by terahertz time-domain electron paramagnetic resonance spectroscopy. <i>Chemical Science</i> , 2017, 8, 7312-7323.	7.4	20
38	Observation of Exciton Redshiftâ€“Blueshift Crossover in Monolayer WS ₂ . <i>Nano Letters</i> , 2017, 17, 4210-4216.	9.1	107
39	Direct optical detection of Weyl fermion chirality in a topological semimetal. <i>Nature Physics</i> , 2017, 13, 842-847.	16.7	291
40	Photoemission of quantum materials. <i>Nature Physics</i> , 2017, 13, 1029-1033.	16.7	25
41	Origin of the exciton mass in the frustrated Mott insulator Na ₂ IrO ₃ . <i>Physical Review B</i> , 2017, 96, .	3.2	5
42	Spatially modulated magnetic structure of EuS due to the tetragonal domain structure of SrTiO_3 . <i>Physical Review Materials</i> , 2017, 1, .		
43	Observation of Intervalley Biexcitonic Optical Stark Effect in Monolayer WS ₂ . <i>Nano Letters</i> , 2016, 16, 7421-7426.	9.1	49
44	Optical Stark effect in 2D semiconductors. <i>Proceedings of SPIE</i> , 2016, , .	0.8	6
45	Direct measurement of proximity-induced magnetism at the interface between a topological insulator and a ferromagnet. <i>Nature Communications</i> , 2016, 7, 12014.	12.8	83
46	Tuning ultrafast electron thermalization pathways in a van der Waals heterostructure. <i>Nature Physics</i> , 2016, 12, 455-459.	16.7	127
47	Selective scattering between Floquetâ€“Bloch and Volkov states in a topological insulator. <i>Nature Physics</i> , 2016, 12, 306-310.	16.7	242
48	Intervalley biexcitons and many-body effects in monolayer MoS ₂ . <i>Physical Review B</i> , 2015, 92, .		
49	Confinement-Deconfinement Transition as an Indication of Spin-Liquid-Type Behavior in Na ₂ MoO ₄ . <i>Physical Review Letters</i> , 2015, 114, 017203.	7.8	46
50	Valley-selective optical Stark effect in monolayer WS ₂ . <i>Nature Materials</i> , 2015, 14, 290-294.	27.5	479
51	Electrostatic Coupling between Two Surfaces of a Topological Insulator Nanodevice. <i>Physical Review Letters</i> , 2014, 113, 206801.	7.8	33
52	Circular dichroism in angle-resolved photoemission spectroscopy of topological insulators. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 64-71.	2.4	46
53	Inside Back Cover: Circular dichroism in angle-resolved photoemission spectroscopy of topological insulators (Phys. Status Solidi RRL 1-2/2013). <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, n/a-n/a.	2.4	0
54	Electron Pulse Compression With a Practical Reflectron Design for Ultrafast Electron Diffraction. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 140-147.	2.9	31

#	ARTICLE	IF	CITATIONS
55	Nonequilibrium quasiparticle relaxation dynamics in single crystals of hole- and electron-doped BaFe _{1-x} K _x As _{0.6} Mn _{0.4} revealed by pump-probe spectroscopy. <i>Physical Review B</i> , 2011, 84, . Band-dependent Quasiparticle Dynamics in Single Crystals of the BaFe _{1-x} K _x As _{0.6} Mn _{0.4} Revealed by Pump-Probe Spectroscopy. <i>Physical Review Letters</i> , 2010, 105, 027005.	3.2	29
56	Nonequilibrium Phase Transitions in Cuprates Observed by Ultrafast Electron Crystallography. <i>Science</i> , 2007, 316, 425-429.	12.6	64
57	Absolute phase measurement in heterodyne detection of transient gratings. <i>Optics Letters</i> , 2004, 29, 2109.	3.3	32