Edbert J Sie

List of Publications by Year
in descending order

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27 papers	1,961 citations	516710 16 h-index	580821 25 g-index
27 all docs	27 docs citations	27 times ranked	3471 citing authors

#	Article	IF	Citations
1	Valley-selective optical Stark effect in monolayerÂWS2. Nature Materials, 2015, 14, 290-294.	27.5	479
2	An ultrafast symmetry switch in a Weyl semimetal. Nature, 2019, 565, 61-66.	27.8	307
3	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	181
4	Light-induced charge density wave in LaTe3. Nature Physics, 2020, 16, 159-163.	16.7	157
5	Dynamics of Bound Exciton Complexes in CdS Nanobelts. ACS Nano, 2011, 5, 3660-3669.	14.6	132
6	Evidence for topological defects in a photoinduced phase transition. Nature Physics, 2019, 15, 27-31.	16.7	128
7	Large, valley-exclusive Bloch-Siegert shift in monolayer WS ₂. Science, 2017, 355, 1066-1069.	12.6	102
8	Berry curvature memory through electrically driven stacking transitions. Nature Physics, 2020, 16, 1028-1034.	16.7	100
9	Time-resolvedÂXUV ARPES with tunable 24â€“33â€‰eV laser pulses at 30â€‰meV resolution. Nature Communications, 2019, 10, 3535.	12.8	69
10	Charge transfer dynamics in Cu-doped ZnO nanowires. Applied Physics Letters, 2011, 98, .	3.3	55
11	Observation of Intervalley Biexcitonic Optical Stark Effect in Monolayer WS₂. Nano Letters, 2016, 16, 7421-7426.	9.1	49
12	High resolution time- and angle-resolved photoemission spectroscopy with 11 eV laser pulses. Review of Scientific Instruments, 2020, 91, 043102.	1.3	32
13	ZnCdO/ZnO Coaxial Multiple Quantum Well Nanowire Heterostructures and Optical Properties. Journal of Physical Chemistry C, 2010, 114, 3863-3868.	3.1	31
14	High-sensitivity multispeckle diffuse correlation spectroscopy. Neurophotonics, 2020, 7, 035010.	3.3	30
15	Tuning the influence of metal nanoparticles on ZnO photoluminescence by atomic-layer-deposited dielectric spacer. Nanophotonics, 2013, 2, 153-160.	6.0	26
16	Carrier Dynamics in Polymer Nanofiber:Fullerene Solar Cells. Journal of Physical Chemistry C, 2012, 116, 18015-18022.	3.1	25
17	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
18	Role of Equilibrium Fluctuations in Light-Induced Order. Physical Review Letters, 2021, 127, 227401.	7.8	16

#	Article	IF	Citations
19	Measuring neuronal activity with diffuse correlation spectroscopy: a theoretical investigation. Neurophotonics, 2021, 8, 035004.	3.3	11
20	Coherent Light-Matter Interactions in Monolayer Transition-Metal Dichalcogenides. Springer Theses, 2018, , .	0.1	9
21	Development of a Monte Carlo-wave model to simulate time domain diffuse correlation spectroscopy measurements from first principles. Journal of Biomedical Optics, 2022, 27, .	2.6	8
22	Optical Stark effect in 2D semiconductors. Proceedings of SPIE, 2016, , .	0.8	6
23	Origin of the exciton mass in the frustrated Mott insulator Na2IrO3. Physical Review B, 2017, 96, .	3.2	5
24	Choosing an optimal wavelength to detect brain activity in functional near-infrared spectroscopy. Optics Letters, 2021, 46, 924.	3.3	3
25	Nanoparticle fractionation using an aligned carbon nanotube array. Nanotechnology, 2010, 21, 295702.	2.6	2
26	Large, Valley-Exclusive Bloch-Siegert Shift in Monolayer WS2. Springer Theses, 2018, , 77-92.	0.1	0
27	10.1063/1.5139556.1. , 2020, , .		0