Ivan Madan

List of Publications by Year
in descending order

20 papers	758 citations	687363 13 h-index	888059 17 g-index
22 all docs	22 docs citations	22 times ranked	835 citing authors

#	Article	IF	Citations
1	Attosecond coherent control of free-electron wave functions using semi-infinite light fields. Nature Communications, 2018, 9, 2694.	12.8	136
2	Ultrafast generation and control of an electron vortex beam via chiral plasmonic near fields. Nature Materials, 2019, 18, 573-579.	27.5	120
3	Laser-Induced Skyrmion Writing and Erasing in an Ultrafast Cryo-Lorentz Transmission Electron Microscope. Physical Review Letters, 2018, 120, 117201.	7.8	115
4	meV Resolution in Laser-Assisted Energy-Filtered Transmission Electron Microscopy. ACS Photonics, 2018, 5, 759-764.	6.6	70
5	Holographic imaging of electromagnetic fields via electron-light quantum interference. Science Advances, 2019, 5, eaav8358.	10.3	58
6	Rotational symmetry breaking in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>8</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> by polarized femtosecond spectroscopy. Physical Review B, 2014, 90, .	3.7	37
7	Stacking transition in rhombohedral graphite. Frontiers of Physics, 2019, 14, 1.	5.0	28
8	Separating pairing from quantum phase coherence dynamics above the superconducting transition by femtosecond spectroscopy. Scientific Reports, 2014, 4, 5656.	3.3	27
9	Nanoscale-femtosecond dielectric response of Mott insulators captured by two-color near-field ultrafast electron microscopy. Nature Communications, 2020, 11, 5770.	12.8	27
10	Evidence for carrier localization in the pseudogap state of cuprate superconductors from coherent quench experiments. Nature Communications, 2015, 6, 6958.	12.8	26
11	The quantum future of microscopy: Wave function engineering of electrons, ions, and nuclei. Applied Physics Letters, 2020, 116, .	3.3	26
12	Nonequilibrium optical control of dynamical states in superconducting nanowire circuits. Science Advances, 2018, 4, eaao0043.	10.3	25
13	Spatio-temporal shaping of a free-electron wave function via coherent lightâ€“electron interaction. Rivista Del Nuovo Cimento, 2020, 43, 567-597.	5.7	24
14	Real-time measurement of the emergence of superconducting order in a high-temperature superconductor. Physical Review B, 2016, 93, .	3.2	12
15	Dynamics of superconducting order parameter through ultrafast normal-to-superconducting phase transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>8</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> f. Physical Review B, 2017, 96, .	3.2	10
16	Nuclear Excitation by Electron Capture in Excited Ions. Physical Review Letters, 2022, 128, .	7.8	9
17	Resonant Inelastic X-Ray Scattering Study of Electron-Exciton Coupling in High- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:math> Cuprates. Physical Review X, 2022, 12, .	8.9	3
18	Charge Dynamics Electron Microscopy. , 2021, , .		2

#	Article	IF	Citations
19	Time-resolved polarimetry for photoexcited QP dynamics in Bi2212. International Journal of Modern Physics B, 2015, 29, 1542031.	2.0	0
20	Longitudinal and transverse modulation of electron wave function with light, and its application to electron microscopy. , 2021, , .		0