

Fabrizio Carbone

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

2,409
citations

24
h-index

48
g-index

68
ext. papers

2,846
ext. citations

7.8
avg. IF

4.98
L-index

#	Paper	IF	Citations
58	Direct Visualisation of Skyrmion Lattice Defect Alignment at Grain Boundaries.. <i>Nanoscale Research Letters</i> , 2022 , 17, 20	5	
57	Dynamical Control of Nuclear Isomer Depletion via Electron Vortex Beams.. <i>Physical Review Letters</i> , 2022 , 128, 162501	7.4	0
56	Ultrafast Momentum-Resolved Free-Electron Probing of Optically Pumped Plasmon Thermal Dynamics. <i>ACS Photonics</i> , 2021 , 8, 614-624	6.3	1
55	An electron walks into a quantum bar. <i>Science</i> , 2021 , 373, 1309-1310	33.3	
54	Melting of a skyrmion lattice to a skyrmion liquid via a hexatic phase. <i>Nature Nanotechnology</i> , 2020 , 15, 761-767	28.7	16
53	The quantum future of microscopy: Wave function engineering of electrons, ions, and nuclei. <i>Applied Physics Letters</i> , 2020 , 116, 230502	3.4	10
52	Electron-phonon-driven three-dimensional metallicity in an insulating cuprate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 6409-6416	11.5	8
51	Energy domain versus time domain precursor fluctuations above the Verwey transition in magnetite. <i>Physical Review B</i> , 2020 , 101,	3.3	1
50	Spatio-temporal shaping of a free-electron wave function via coherent light-electron interaction. <i>Rivista Del Nuovo Cimento</i> , 2020 , 43, 567-597	3.5	7
49	Nanoscale-femtosecond dielectric response of Mott insulators captured by two-color near-field ultrafast electron microscopy. <i>Nature Communications</i> , 2020 , 11, 5770	17.4	13
48	Holographic imaging of electromagnetic fields via electron-light quantum interference. <i>Science Advances</i> , 2019 , 5, eaav8358	14.3	30
47	Ultrafast generation and control of an electron vortex beam via chiral plasmonic near fields. <i>Nature Materials</i> , 2019 , 18, 573-579	27	65
46	Local photo-mechanical stiffness revealed in gold nanoparticles supracrystals by ultrafast small-angle electron diffraction. <i>Structural Dynamics</i> , 2019 , 6, 024304	3.2	1
45	Stacking transition in rhombohedral graphite. <i>Frontiers of Physics</i> , 2019 , 14, 1	3.7	15
44	meV Resolution in Laser-Assisted Energy-Filtered Transmission Electron Microscopy. <i>ACS Photonics</i> , 2018 , 5, 759-764	6.3	51
43	Laser-Induced Skyrmion Writing and Erasing in an Ultrafast Cryo-Lorentz Transmission Electron Microscope. <i>Physical Review Letters</i> , 2018 , 120, 117201	7.4	75
42	Lattice-mediated magnetic order melting in TbMnO ₃ . <i>Physical Review B</i> , 2018 , 97,	3.3	6

41	In Situ Electric Field Skyrmion Creation in Magnetoelectric CuOSeO. <i>Nano Letters</i> , 2018 , 18, 5167-5171	11.5	26
40	Ultrafast electron energy-loss spectroscopy in transmission electron microscopy. <i>MRS Bulletin</i> , 2018 , 43, 497-503	3.2	14
39	Attosecond coherent control of free-electron wave functions using semi-infinite light fields. <i>Nature Communications</i> , 2018 , 9, 2694	17.4	76
38	Investigating Skyrmions Using Lorentz Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018 , 24, 932-933	0.5	0
37	Light scattering from the critical modes of the Verwey transition in magnetite. <i>Physical Review B</i> , 2018 , 98,	3.3	3
36	Clocking the onset of bilayer coherence in a high-Tc cuprate. <i>Physical Review B</i> , 2017 , 95,	3.3	8
35	Magnetic Skyrmions and Skyrmion Clusters in the Helical Phase of Cu ₂ OSeO ₃ . <i>Physical Review Letters</i> , 2017 , 119, 137201	7.4	36
34	Design and implementation of an optimal laser pulse front tilting scheme for ultrafast electron diffraction in reflection geometry with high temporal resolution. <i>Structural Dynamics</i> , 2017 , 4, 044032	3.2	3
33	Ultrafast atomic-scale visualization of acoustic phonons generated by optically excited quantum dots. <i>Structural Dynamics</i> , 2017 , 4, 044034	3.2	6
32	Real-Time Observation of Phonon-Mediated π -Interband Scattering in MgB ₂ . <i>Physical Review Letters</i> , 2017 , 119, 097002	7.4	9
31	Coherent generation of symmetry-forbidden phonons by light-induced electron-phonon interactions in magnetite. <i>Physical Review B</i> , 2017 , 96,	3.3	10
30	Mapping the lattice dynamical anomaly of the order parameters across the Verwey transition in magnetite. <i>New Journal of Physics</i> , 2017 , 19, 103013	2.9	7
29	Femtosecond manipulation of spins, charges, and ions in nanostructures, thin films, and surfaces. <i>Structural Dynamics</i> , 2017 , 4, 061504	3.2	
28	Probing the coupling between a doublon excitation and the charge-density wave in TaS ₂ by ultrafast optical spectroscopy. <i>Physical Review B</i> , 2016 , 94,	3.3	13
27	Electron diffraction by plasmon waves. <i>Physical Review B</i> , 2016 , 94,	3.3	32
26	Imaging and controlling plasmonic interference fields at buried interfaces. <i>Nature Communications</i> , 2016 , 7, 13156	17.4	36
25	Light-induced Dynamics of a Dodecanethiol-capped Gold Nanoparticles Supracrystal Revealed by Ultrafast Small-angle Electron Diffraction 2016 ,		2
24	A versatile setup for ultrafast broadband optical spectroscopy of coherent collective modes in strongly correlated quantum systems. <i>Structural Dynamics</i> , 2016 , 3, 064301	3.2	9

23	Order/Disorder Dynamics in a Dodecanethiol-Capped Gold Nanoparticles Supracrystal by Small-Angle Ultrafast Electron Diffraction. <i>Nano Letters</i> , 2016 , 16, 2705-13	11.5	38
22	Simultaneous observation of the quantization and the interference pattern of a plasmonic near-field. <i>Nature Communications</i> , 2015 , 6, 6407	17.4	159
21	Probing the electron-phonon interaction in correlated systems with coherent lattice fluctuation spectroscopy. <i>Physical Review B</i> , 2015 , 92,	3.3	13
20	The role of the coherence in the cross-correlation analysis of diffraction patterns from two-dimensional dense mono-disperse systems. <i>Scientific Reports</i> , 2015 , 5, 16573	4.9	20
19	Dynamics deep from the core. <i>Structural Dynamics</i> , 2015 , 2, 020601	3.2	4
18	Filming the formation and fluctuation of skyrmion domains by cryo-Lorentz transmission electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14212-7	11.5	58
17	Ultrafast structural and electronic dynamics of the metallic phase in a layered manganite. <i>Structural Dynamics</i> , 2014 , 1, 014501	3.2	26
16	A proposal for fs-electron microscopy experiments on high-energy excitations in solids. <i>Micron</i> , 2014 , 63, 40-6	2.3	5
15	Design and implementation of a fs-resolved transmission electron microscope based on thermionic gun technology. <i>Chemical Physics</i> , 2013 , 423, 79-84	2.3	87
14	Coupling of a high-energy excitation to superconducting quasiparticles in a cuprate from coherent charge fluctuation spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4539-4544	11.5	71
13	Quantitative imaging of flux vortices in the type-II superconductor MgB2 using cryo-Lorentz transmission electron microscopy. <i>Physical Review B</i> , 2013 , 88,	3.3	7
12	Evidence for a Peierls phase-transition in a three-dimensional multiple charge-density waves solid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 5603-8	11.5	28
11	Design and implementation of a flexible beamline for fs electron diffraction experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012 , 691, 113-122	1.2	35
10	A perspective on novel sources of ultrashort electron and X-ray pulses. <i>Chemical Physics</i> , 2012 , 392, 1-9	2.3	45
9	Modern electron microscopy resolved in space, energy and time. <i>EPJ Applied Physics</i> , 2011 , 54, 33503	1.1	9
8	Femtosecond carrier dynamics in bulk graphite and graphene paper. <i>Chemical Physics Letters</i> , 2011 , 504, 37-40	2.5	40
7	Quantum study of laser-induced initial activation of graphite-to-diamond conversion. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12166-7	16.4	9
6	The interplay between structure and orbitals in the chemical bonding of graphite. <i>Chemical Physics Letters</i> , 2010 , 496, 291-295	2.5	20

5	EELS femtosecond resolved in 4D ultrafast electron microscopy. <i>Chemical Physics Letters</i> , 2009 , 468, 107-111	2.5	58
4	Dynamics of chemical bonding mapped by energy-resolved 4D electron microscopy. <i>Science</i> , 2009 , 325, 181-4	33.3	153
3	Universal optical conductance of graphite. <i>Physical Review Letters</i> , 2008 , 100, 117401	7.4	744
2	Direct role of structural dynamics in electron-lattice coupling of superconducting cuprates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 20161-6	11.5	65
1	Structural preablation dynamics of graphite observed by ultrafast electron crystallography. <i>Physical Review Letters</i> , 2008 , 100, 035501	7.4	121