

Elena R Margine

List of Publications by Year in descending order

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35
papers

3,183
citations

361045

20
h-index

395343

33
g-index

35
all docs

35
docs citations

35
times ranked

3836
citing authors

#	ARTICLE	IF	CITATIONS
1	EPW: Electron-phonon coupling, transport and superconducting properties using maximally localized Wannier functions. <i>Computer Physics Communications</i> , 2016, 209, 116-133.	3.0	777
2	Microstructured Optical Fibers as High-Pressure Microfluidic Reactors. <i>Science</i> , 2006, 311, 1583-1586.	6.0	442
3	Dislocation-Driven Deformations in Graphene. <i>Science</i> , 2012, 337, 209-212.	6.0	332
4	Towards predictive many-body calculations of phonon-limited carrier mobilities in semiconductors. <i>Physical Review B</i> , 2018, 97, .	1.1	224
5	Anisotropic Migdal-Eliashberg theory using Wannier functions. <i>Physical Review B</i> , 2013, 87, .	1.1	220
6	New Superconducting and Semiconducting Fe-B Compounds Predicted with an <i>Ab Initio</i> Evolutionary Search. <i>Physical Review Letters</i> , 2010, 105, 217003.	2.9	182
7	Chemically Doped Double-Walled Carbon Nanotubes: Cylindrical Molecular Capacitors. <i>Physical Review Letters</i> , 2003, 90, 257403.	2.9	112
8	Origin of Superconductivity and Latent Charge Density Wave in NbS_2 . <i>Physical Review Letters</i> , 2017, 119, 087003.	2.9	108
9	Thermal Stability of Graphene and Nanotube Covalent Functionalization. <i>Nano Letters</i> , 2008, 8, 3315-3319.	4.5	91
10	The 2021 room-temperature superconductivity roadmap. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 183002.	0.7	79
11	Two-gap superconductivity in heavily n -doped graphene: <i>Ab initio</i> Migdal-Eliashberg theory. <i>Physical Review B</i> , 2014, 90, .	1.1	71
12	Electron-phonon interaction and pairing mechanism in superconducting Ca-intercalated bilayer graphene. <i>Scientific Reports</i> , 2016, 6, 21414.	1.6	65
13	Universal Behavior of Nearly Free Electron States in Carbon Nanotubes. <i>Physical Review Letters</i> , 2006, 96, 196803.	2.9	63
14	Pressure-Driven Evolution of the Covalent Network in CaB_6 . <i>Physical Review Letters</i> , 2012, 109, 075501.	2.9	57
15	First-principles predictions of Hall and drift mobilities in semiconductors. <i>Physical Review Research</i> , 2021, 3, .	1.3	48
16	Possible routes for synthesis of new boron-rich Fe_xB and $\text{Fe}_{1-x}\text{Cr}_x\text{B}_4$ compounds. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	46
17	First-principles calculations of the superconducting properties in Li-decorated monolayer graphene within the anisotropic Migdal-Eliashberg formalism. <i>Physical Review B</i> , 2016, 94, .	1.1	46
18	Unusual Pressure-Induced Periodic Lattice Distortion in SnSe_2 . <i>Physical Review Letters</i> , 2018, 121, 027003.	2.9	24

#	ARTICLE	IF	CITATIONS
19	Development of orthogonal tight-binding models for Ti-C and Ti-N systems. <i>Physical Review B</i> , 2011, 84, .	1.1	23
20	BOPfox program for tight-binding and analytic bond-order potential calculations. <i>Computer Physics Communications</i> , 2019, 235, 221-233.	3.0	21
21	Electron-phonon coupling and pairing mechanism in MgB_2 centrosymmetric superconductor. <i>Physical Review B</i> , 2017, 95, .	1.1	20
22	Electronic transport properties of selected carbon C_{60} -bowls with different size, curvature and solid state packing. <i>Carbon</i> , 2015, 94, 174-180.	5.4	19
23	Conductance of functionalized nanotubes, graphene and nanowires: from <i>ab initio</i> to mesoscopic physics. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2962-2967.	0.7	16
24	Theory of genus reduction in alkali-induced graphitization of nanoporous carbon. <i>Physical Review B</i> , 2007, 76, .	1.1	14
25	Evolution of the topologically protected surface states in superconductor Bi_2Pd from the three-dimensional to the two-dimensional limit. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 325501.	0.7	14
26	Ab initio study of electron-phonon coupling in boron-doped SiC. <i>Applied Physics Letters</i> , 2008, 93, 192510.	1.5	13
27	Electronic, vibrational, and electron-phonon coupling properties in SnSe_2 and SnS_2 under pressure. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16404-16417.	2.7	12
28	Resonant spin-filtering in cobalt decorated nanotubes. <i>Applied Physics Letters</i> , 2009, 94, 173103.	1.5	10
29	Superconducting properties of MoTe_2 from <i>ab initio</i> anisotropic Migdal-Eliashberg theory. <i>Physical Review B</i> , 2020, 101, .	1.1	10
30	Ultrafast dynamics in the high-symmetry and in the charge density wave phase of HfTe_2 . <i>Physical Review B</i> , 2020, 102, .	1.1	10
31	Reciprocal Space Constraints Create Real-Space Anomalies in Doped Carbon Nanotubes. <i>Physical Review Letters</i> , 2007, 99, 196803.	2.9	6
32	Competition between crystal-field, overlap, and three-center contributions in HfN eigenspectra. <i>Physical Review B</i> , 2014, 89, .	1.1	4
33	High pressure CVD inside microstructured optical fibres. , 2006, , .		2
34	Superconducting properties in doped 2M-WS_2 from first principles. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7917-7924.	2.7	2
35	Electronic and Plasmonic Materials Inside Microstructured Optical Fibers. , 2007, , .		0