

# 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

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g-index

35  
all docs

35  
docs citations

35  
times ranked

3836  
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2021 room-temperature superconductivity roadmap. Journal of Physics Condensed Matter, 2022, 34, 183002.	0.7	79
2	Superconducting properties in doped 2M-WS <sub>2</sub> from first principles. Journal of Materials Chemistry C, 2022, 10, 7917-7924.	2.7	2
3	First-principles predictions of Hall and drift mobilities in semiconductors. Physical Review Research, 2021, 3, .	1.3	48
4	Electronic, vibrational, and electron-phonon coupling properties in SnSe <sub>2</sub> and SnS <sub>2</sub> under pressure. Journal of Materials Chemistry C, 2020, 8, 16404-16417.	2.7	12
5	Superconducting properties of $\text{MoTe}_2$ from <i>ab initio</i> anisotropic Migdal-Eliashberg theory. Physical Review B, 2020, 101, .	1.0	10
6	Ultrafast dynamics in the high-symmetry and in the charge density wave phase of $\text{HfTe}_2$ . Physical Review B, 2020, 102, .	1.1	10
7	BOPfox program for tight-binding and analytic bond-order potential calculations. Computer Physics Communications, 2019, 235, 221-233.	3.0	21
8	Towards predictive many-body calculations of phonon-limited carrier mobilities in semiconductors. Physical Review B, 2018, 97, .	1.1	224
9	Unusual Pressure-Induced Periodic Lattice Distortion in $\text{SnSe}_2$ . Physical Review Letters, 2018, 121, 027003.	2.9	24
10	Electron-phonon coupling and pairing mechanism in $\text{HfTe}_2$ centrosymmetric superconductor. Physical Review B, 2017, 95, .	1.1	20
11	Origin of Superconductivity and Latent Charge Density Wave in $\text{NbS}_2$ . Physical Review Letters, 2017, 119, 087003.	2.9	108
12	Evolution of the topologically protected surface states in superconductor $\text{Bi}_2\text{Pd}$ from the three-dimensional to the two-dimensional limit. Journal of Physics Condensed Matter, 2017, 29, 325501.	0.7	14
13	Electron-phonon interaction and pairing mechanism in superconducting Ca-intercalated bilayer graphene. Scientific Reports, 2016, 6, 21414.	1.6	65
14	First-principles calculations of the superconducting properties in Li-decorated monolayer graphene within the anisotropic Migdal-Eliashberg formalism. Physical Review B, 2016, 94, .	1.1	46
15	EPW: Electron-phonon coupling, transport and superconducting properties using maximally localized Wannier functions. Computer Physics Communications, 2016, 209, 116-133.	3.0	777
16	Electronic transport properties of selected carbon $\text{C}_60$ -bowls with different size, curvature and solid state packing. Carbon, 2015, 94, 174-180.	5.4	19
17	Competition between crystal-field, overlap, and three-center contributions in $\text{HfTe}_2$ eigenspectra. Physical Review B, 2014, 89, .	1.1	4
18	Two-gap superconductivity in heavily $\text{n-doped}$ graphene: <i>Ab initio</i> Migdal-Eliashberg theory. Physical Review B, 2014, 90, .	1.1	71

#	ARTICLE	IF	CITATIONS
19	Anisotropic Migdal-Eliashberg theory using Wannier functions. <i>Physical Review B</i> , 2013, 87, .	1.1	220
20	Pressure-Driven Evolution of the Covalent Network in CaB <sub>6</sub> . <i>Physical Review Letters</i> , 2012, 109, 075501.	2.9	57
21	Dislocation-Driven Deformations in Graphene. <i>Science</i> , 2012, 337, 209-212.	6.0	332
22	Possible routes for synthesis of new boron-rich Fe <sub>1-x</sub> Cr <sub>x</sub> B <sub>4</sub> compounds. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	46
23	Development of orthogonal tight-binding models for Ti-C and Ti-N systems. <i>Physical Review B</i> , 2011, 84, .	1.1	23
24	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
25	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
26	Resonant spin-filtering in cobalt decorated nanotubes. <i>Applied Physics Letters</i> , 2009, 94, 173103.	1.5	10
27	Thermal Stability of Graphene and Nanotube Covalent Functionalization. <i>Nano Letters</i> , 2008, 8, 3315-3319.	4.5	91
28	<i>Ab initio</i> study of electron-phonon coupling in boron-doped SiC. <i>Applied Physics Letters</i> , 2008, 93, 192510.	1.5	13
29	Theory of genus reduction in alkali-induced graphitization of nanoporous carbon. <i>Physical Review B</i> , 2007, 76, .	1.1	14
30	Reciprocal Space Constraints Create Real-Space Anomalies in Doped Carbon Nanotubes. <i>Physical Review Letters</i> , 2007, 99, 196803.	2.9	6
31	Electronic and Plasmonic Materials Inside Microstructured Optical Fibers. , 2007, , .		0
32	Universal Behavior of Nearly Free Electron States in Carbon Nanotubes. <i>Physical Review Letters</i> , 2006, 96, 196803.	2.9	63
33	Microstructured Optical Fibers as High-Pressure Microfluidic Reactors. <i>Science</i> , 2006, 311, 1583-1586.	6.0	442
34	High pressure CVD inside microstructured optical fibres. , 2006, , .		2
35	Chemically Doped Double-Walled Carbon Nanotubes: Cylindrical Molecular Capacitors. <i>Physical Review Letters</i> , 2003, 90, 257403.	2.9	112