

# Emmanuele Cappelluti

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8521711/publications.pdf>

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23  
papers

2,374  
citations

687220

13  
h-index

713332

21  
g-index

23  
all docs

23  
docs citations

23  
times ranked

4390  
citing authors

#	ARTICLE	IF	CITATIONS
1	Local Strain Engineering in Atomically Thin MoS <sub>2</sub> . Nano Letters, 2013, 13, 5361-5366.	4.5	1,041
2	Strain engineering in semiconducting two-dimensional crystals. Journal of Physics Condensed Matter, 2015, 27, 313201.	0.7	381
3	Tight-binding model and direct-gap/indirect-gap transition in single-layer and multilayer MoS <sub>2</sub> . Physical Review B, 2013, 88, .	1.1	351
4	Theory of strain in single-layer transition metal dichalcogenides. Physical Review B, 2015, 92, .	1.1	138
5	Gate Tunable Infrared Phonon Anomalies in Bilayer Graphene. Physical Review Letters, 2009, 103, 116804.	2.9	127
6	Strain-tuning of the electronic, optical, and vibrational properties of two-dimensional crystals. Applied Physics Reviews, 2021, 8, .	5.5	67
7	Anisotropic MoS <sub>2</sub> Nanosheets Grown on Self-Organized Nanopatterned Substrates. Advanced Materials, 2017, 29, 1605785.	11.1	53
8	Charged-phonon theory and Fano effect in the optical spectroscopy of bilayer graphene. Physical Review B, 2012, 86, .	1.1	35
9	Unconventional dc Transport in Rashba Electron Gases. Physical Review Letters, 2016, 116, 166602.	2.9	33
10	Phonon switching and combined Fano-Rice effect in optical spectra of bilayer graphene. Physical Review B, 2010, 82, .	1.1	31
11	Giant effective charges and piezoelectricity in gapped graphene. 2D Materials, 2019, 6, 045015.	2.0	23
12	Vertex renormalization in dc conductivity of doped chiral graphene. Physical Review B, 2009, 79, .	1.1	22
13	Real-Time Observation of Phonon-Mediated Interband Scattering in MoS <sub>2</sub> . Physical Review Letters, 2017, 119, 097002.	2.9	16
14	Nonadiabatic electron-phonon effects in low carrier density superconductors. Physica Status Solidi (B): Basic Research, 2005, 242, 133-150.	0.7	11
15	Zero-point motion and direct-indirect band-gap crossover in layered transition-metal dichalcogenides. Physical Review B, 2018, 98, .	1.1	11
16	Dominant role of two-photon vertex in nonlinear response in two-dimensional Dirac systems. Npj 2D Materials and Applications, 2021, 5, .	3.9	11
17	Impurity effects and bandgap closing in massive Dirac systems. Physical Review B, 2017, 96, .	1.1	10
18	Many-body effects in third harmonic generation of graphene. Physical Review B, 2021, 103, .	1.1	7

#	ARTICLE	IF	CITATIONS
19	Strain-driven chiral phonons in two-dimensional hexagonal materials. <i>Physical Review B</i> , 2022, 105, .	1.1	4
20	FAILURE OF THE MIGDAL-ELIASHBERG THEORY OF SUPERCONDUCTIVITY IN Rb3C60. <i>International Journal of Modern Physics B</i> , 2000, 14, 2950-2955.	1.0	1
21	Nonadiabatic channels in fullerene compounds. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	1
22	Nonadiabatic superconductivity in fullerene-based materials. <i>Physics of the Solid State</i> , 2002, 44, 454-458.	0.2	0
23	Topological properties and self-energy effects in elemental Yb. <i>Physical Review B</i> , 2021, 104, .	1.1	0