Erik Piatti

List of Publications by Year
in descending order

30 papers	569 citations	567281 15 h-index	642732 23 g-index
30 all docs	30 docs citations	30 times ranked	548 citing authors

#	Article	IF	Citations
1	The 2021 room-temperature superconductivity roadmap. Journal of Physics Condensed Matter, 2022, 34, 183002.	1.8	79
2	Multi-Valley Superconductivity in Ion-Gated MoS₂ Layers. Nano Letters, 2018, 18, 4821-4830.	9.1	58
3	Charge transport mechanisms in inkjet-printed thin-film transistors based on two-dimensional materials. Nature Electronics, 2021, 4, 893-905.	26.0	52
4	Control of bulk superconductivity in a BCS superconductor by surface charge doping via electrochemical gating. Physical Review B, 2017, 95, .	3.2	28
5	Temperature Dependence of Electric Transport in Few-layer Graphene under Large Charge Doping Induced by Electrochemical Gating. Scientific Reports, 2015, 5, 9554.	3.3	27
6	Weak localization in electric-double-layer gated few-layer graphene. 2D Materials, 2017, 4, 035006.	4.4	25
7	Proximity Eliashberg theory of electrostatic field-effect doping in superconducting films. Physical Review B, 2017, 96, .	3.2	24
8	Strong dopant dependence of electric transport in ion-gated MoS2. Applied Physics Letters, 2017, 111, .	3.3	24
9	Development of Pressure-Responsive PolyPropylene and Biochar-Based Materials. Micromachines, 2020, 11, 339.	2.9	24
10	Frustrated supercritical collapse in tunable charge arrays on graphene. Nature Communications, 2019, 10, 477.	12.8	23
11	Waste to life: Low-cost, self-standing, 2D carbon fiber green Li-ion battery anode made from end-of-life cotton textile. Electrochimica Acta, 2021, 368, 137644.	5.2	22
12	Possible charge-density-wave signatures in the anomalous resistivity of Li-intercalated multilayer MoS2. Applied Surface Science, 2018, 461, 269-275.	6.1	20
13	Superconducting Transition Temperature Modulation in NbN via EDL Gating. Journal of Superconductivity and Novel Magnetism, 2016, 29, 587-591.	1.8	18
14	Carrier mobility and scattering lifetime in electric double-layer gated few-layer graphene. Applied Surface Science, 2017, 395, 37-41.	6.1	16
15	Towards the insulator-to-metal transition at the surface of ion-gated nanocrystalline diamond films. European Physical Journal: Special Topics, 2019, 228, 689-696.	2.6	15
16	Mapping multi-valley Lifshitz transitions induced by field-effect doping in strained MoS₂ nanolayers. Journal of Physics Condensed Matter, 2019, 31, 114002.	1.8	13
17	Anomalous screening of an electrostatic field at the surface of niobium nitride. Applied Surface Science, 2018, 461, 17-22.	6.1	12
18	Two-dimensional hole transport in ion-gated diamond surfaces: A brief review (Review article). Low Temperature Physics, 2019, 45, 1143-1155.	0.6	11

#	Article	IF	Citations
19	Ambipolar suppression of superconductivity by ionic gating in optimally doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></ ultrathin films. Physical Review Materials, 2019, 3, .	2.4	11
20	Ionic gating in metallic superconductors: A brief review. Nano Express, 2021, 2, 024003.	2.4	10
21	Pressure-Responsive Conductive Poly(vinyl alcohol) Composites Containing Waste Cotton Fibers Biochar. Micromachines, 2022, 13, 125.	2.9	10
22	Orientation-dependent electric transport and band filling in hole co-doped epitaxial diamond films. Applied Surface Science, 2020, 528, 146795.	6.1	9
23	Nodal multigap superconductivity in the anisotropic iron-based compound RbCa2Fe4As4F2. Npj Quantum Materials, 2022, 7, .	5.2	9
24	P3HT Processing Study for In-Liquid EGOFET Biosensors: Effects of the Solvent and the Surface. Sensors, 2019, 19, 4497.	3.8	6
25	Decoupling of critical temperature and superconducting gaps in irradiated films of a Fe-based superconductor. Superconductor Science and Technology, 2018, 31, 034005.	3.5	5
26	Superconductivity of underdoped PrFeAs(O,F) investigated via point-contact spectroscopy and nuclear magnetic resonance. Physical Review B, 2020, 102, .	3.2	5
27	Strong band-filling-dependence of the scattering lifetime in gated MoS 2 nanolayers induced by the opening of intervalley scattering channels. Journal of Applied Physics, 2020, 128, 063907.	2.5	5
28	Theoretical Explanation of Electric Fieldâ€Induced Superconductive Critical Temperature Shifts in Indium Thin Films. Physica Status Solidi (B): Basic Research, 2020, 257, 1900651.	1.5	4
29	Migdal-Eliashberg theory of multi-band high-temperature superconductivity in field-effect-doped hydrogenated (111) diamond. Applied Surface Science, 2021, 536, 147723.	6.1	2
30	Anomalous Metallic Phase in Molybdenum Disulphide Induced via Gate-Driven Organic Ion Intercalation. Nanomaterials, 2022, 12, 1842.	4.1	2