

Erik Piatti

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

569
citations

567281

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642732

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all docs

30
docs citations

30
times ranked

548
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The 2021 room-temperature superconductivity roadmap. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 183002. | 1.8 | 79 |
| 2 | Pressure-Responsive Conductive Poly(vinyl alcohol) Composites Containing Waste Cotton Fibers Biochar. <i>Micromachines</i> , 2022, 13, 125. | 2.9 | 10 |
| 3 | Nodal multigap superconductivity in the anisotropic iron-based compound RbCa ₂ Fe ₄ As ₄ F ₂ . <i>Npj Quantum Materials</i> , 2022, 7, . | 5.2 | 9 |
| 4 | Anomalous Metallic Phase in Molybdenum Disulphide Induced via Gate-Driven Organic Ion Intercalation. <i>Nanomaterials</i> , 2022, 12, 1842. | 4.1 | 2 |
| 5 | Migdal-Eliashberg theory of multi-band high-temperature superconductivity in field-effect-doped hydrogenated (111) diamond. <i>Applied Surface Science</i> , 2021, 536, 147723. | 6.1 | 2 |
| 6 | Waste to life: Low-cost, self-standing, 2D carbon fiber green Li-ion battery anode made from end-of-life cotton textile. <i>Electrochimica Acta</i> , 2021, 368, 137644. | 5.2 | 22 |
| 7 | Ionic gating in metallic superconductors: A brief review. <i>Nano Express</i> , 2021, 2, 024003. | 2.4 | 10 |
| 8 | Charge transport mechanisms in inkjet-printed thin-film transistors based on two-dimensional materials. <i>Nature Electronics</i> , 2021, 4, 893-905. | 26.0 | 52 |
| 9 | Superconductivity of underdoped PrFeAs(O,F) investigated via point-contact spectroscopy and nuclear magnetic resonance. <i>Physical Review B</i> , 2020, 102, . | 3.2 | 5 |
| 10 | Orientation-dependent electric transport and band filling in hole co-doped epitaxial diamond films. <i>Applied Surface Science</i> , 2020, 528, 146795. | 6.1 | 9 |
| 11 | Strong band-filling-dependence of the scattering lifetime in gated MoS ₂ nanolayers induced by the opening of intervalley scattering channels. <i>Journal of Applied Physics</i> , 2020, 128, 063907. | 2.5 | 5 |
| 12 | Theoretical Explanation of Electric Field-Induced Superconductive Critical Temperature Shifts in Indium Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900651. | 1.5 | 4 |
| 13 | Development of Pressure-Responsive PolyPropylene and Biochar-Based Materials. <i>Micromachines</i> , 2020, 11, 339. | 2.9 | 24 |
| 14 | Towards the insulator-to-metal transition at the surface of ion-gated nanocrystalline diamond films. <i>European Physical Journal: Special Topics</i> , 2019, 228, 689-696. | 2.6 | 15 |
| 15 | Frustrated supercritical collapse in tunable charge arrays on graphene. <i>Nature Communications</i> , 2019, 10, 477. | 12.8 | 23 |
| 16 | Mapping multi-valley Lifshitz transitions induced by field-effect doping in strained MoS ₂ nanolayers. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 114002. | 1.8 | 13 |
| 17 | P3HT Processing Study for In-Liquid EGO-FET Biosensors: Effects of the Solvent and the Surface. <i>Sensors</i> , 2019, 19, 4497. | 3.8 | 6 |
| 18 | Two-dimensional hole transport in ion-gated diamond surfaces: A brief review (Review article). <i>Low Temperature Physics</i> , 2019, 45, 1143-1155. | 0.6 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Ambipolar suppression of superconductivity by ionic gating in optimally doped BaFe_2As_2 ultrathin films. <i>Physical Review Materials</i> , 2019, 3, . | 2.4 | 11 |
| 20 | Decoupling of critical temperature and superconducting gaps in irradiated films of a Fe-based superconductor. <i>Superconductor Science and Technology</i> , 2018, 31, 034005. | 3.5 | 5 |
| 21 | Multi-Valley Superconductivity in Ion-Gated MoS_2 Layers. <i>Nano Letters</i> , 2018, 18, 4821-4830. | 9.1 | 58 |
| 22 | Anomalous screening of an electrostatic field at the surface of niobium nitride. <i>Applied Surface Science</i> , 2018, 461, 17-22. | 6.1 | 12 |
| 23 | Possible charge-density-wave signatures in the anomalous resistivity of Li-intercalated multilayer MoS_2 . <i>Applied Surface Science</i> , 2018, 461, 269-275. | 6.1 | 20 |
| 24 | Carrier mobility and scattering lifetime in electric double-layer gated few-layer graphene. <i>Applied Surface Science</i> , 2017, 395, 37-41. | 6.1 | 16 |
| 25 | Weak localization in electric-double-layer gated few-layer graphene. <i>2D Materials</i> , 2017, 4, 035006. | 4.4 | 25 |
| 26 | Proximity Eliashberg theory of electrostatic field-effect doping in superconducting films. <i>Physical Review B</i> , 2017, 96, . | 3.2 | 24 |
| 27 | Control of bulk superconductivity in a BCS superconductor by surface charge doping via electrochemical gating. <i>Physical Review B</i> , 2017, 95, . | 3.2 | 28 |
| 28 | Strong dopant dependence of electric transport in ion-gated MoS_2 . <i>Applied Physics Letters</i> , 2017, 111, . | 3.3 | 24 |
| 29 | Superconducting Transition Temperature Modulation in NbN via EDL Gating. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 587-591. | 1.8 | 18 |
| 30 | Temperature Dependence of Electric Transport in Few-layer Graphene under Large Charge Doping Induced by Electrochemical Gating. <i>Scientific Reports</i> , 2015, 5, 9554. | 3.3 | 27 |