

Riccardo Comin

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2907422/riccardo-comin-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

16,768
citations

41
h-index

87
g-index

87
ext. papers

19,690
ext. citations

16.8
avg, IF

6.36
L-index

#	Paper	IF	Citations
79	Solar cells. Low trap-state density and long carrier diffusion in organolead trihalide perovskite single crystals. <i>Science</i> , 2015 , 347, 519-22	33.3	3307
78	Perovskite energy funnels for efficient light-emitting diodes. <i>Nature Nanotechnology</i> , 2016 , 11, 872-877	28.7	1484
77	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , 2016 , 352, 333-7	33.3	1459
76	Ligand-Stabilized Reduced-Dimensionality Perovskites. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2649-55	16.4	889
75	Perovskite-fullerene hybrid materials suppress hysteresis in planar diodes. <i>Nature Communications</i> , 2015 , 6, 7081	17.4	815
74	Highly Efficient Perovskite-Quantum-Dot Light-Emitting Diodes by Surface Engineering. <i>Advanced Materials</i> , 2016 , 28, 8718-8725	24	700
73	Materials processing routes to trap-free halide perovskites. <i>Nano Letters</i> , 2014 , 14, 6281-6	11.5	567
72	Planar-integrated single-crystalline perovskite photodetectors. <i>Nature Communications</i> , 2015 , 6, 8724	17.4	497
71	Ubiquitous interplay between charge ordering and high-temperature superconductivity in cuprates. <i>Science</i> , 2014 , 343, 393-6	33.3	425
70	Charge order driven by Fermi-arc instability in $\text{Bi}_2\text{Sr}_{(2-x)}\text{La}_x\text{CuO}_{(6+\delta)}$. <i>Science</i> , 2014 , 343, 390-2	33.3	425
69	Efficient Luminescence from Perovskite Quantum Dot Solids. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25007-13	9.5	401
68	Quantum-dot-in-perovskite solids. <i>Nature</i> , 2015 , 523, 324-8	50.4	382
67	Theory-driven design of high-valence metal sites for water oxidation confirmed using in situ soft X-ray absorption. <i>Nature Chemistry</i> , 2018 , 10, 149-154	17.6	328
66	Electron-phonon interaction in efficient perovskite blue emitters. <i>Nature Materials</i> , 2018 , 17, 550-556	27	310
65	Tailoring the Energy Landscape in Quasi-2D Halide Perovskites Enables Efficient Green-Light Emission. <i>Nano Letters</i> , 2017 , 17, 3701-3709	11.5	309
64	Highly efficient quantum dot near-infrared light-emitting diodes. <i>Nature Photonics</i> , 2016 , 10, 253-257	33.9	295
63	Heterovalent Dopant Incorporation for Bandgap and Type Engineering of Perovskite Crystals. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 295-301	6.4	268

62	Amine-Free Synthesis of Cesium Lead Halide Perovskite Quantum Dots for Efficient Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2016 , 26, 8757-8763	15.6	265
61	Massive Dirac fermions in a ferromagnetic kagome metal. <i>Nature</i> , 2018 , 555, 638-642	50.4	255
60	Halide-Dependent Electronic Structure of Organolead Perovskite Materials. <i>Chemistry of Materials</i> , 2015 , 27, 4405-4412	9.6	251
59	Two-Photon Absorption in Organometallic Bromide Perovskites. <i>ACS Nano</i> , 2015 , 9, 9340-6	16.7	208
58	Resonant X-Ray Scattering Studies of Charge Order in Cuprates. <i>Annual Review of Condensed Matter Physics</i> , 2016 , 7, 369-405	19.7	194
57	Symmetry of charge order in cuprates. <i>Nature Materials</i> , 2015 , 14, 796-800	27	166
56	Na ₂ IrO ₃ as a novel relativistic Mott insulator with a 340-meV gap. <i>Physical Review Letters</i> , 2012 , 109, 266406	7.4	160
55	Pure Cubic-Phase Hybrid Iodobismuthates AgBi ₂ I ₇ for Thin-Film Photovoltaics. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9586-90	16.4	156
54	Colloidal Quantum Dot Photovoltaics Enhanced by Perovskite Shelling. <i>Nano Letters</i> , 2015 , 15, 7539-43	11.5	155
53	Charge ordering in the electron-doped superconductor Nd(2-x)Ce(x)CuO ₂ . <i>Science</i> , 2015 , 347, 282-5	33.3	152
52	The In-Gap Electronic State Spectrum of Methylammonium Lead Iodide Single-Crystal Perovskites. <i>Advanced Materials</i> , 2016 , 28, 3406-10	24	151
51	High-valence metals improve oxygen evolution reaction performance by modulating 3d metal oxidation cycle energetics. <i>Nature Catalysis</i> , 2020 , 3, 985-992	36.5	149
50	Rashba spin-splitting control at the surface of the topological insulator Bi ₂ Se ₃ . <i>Physical Review Letters</i> , 2011 , 107, 186405	7.4	146
49	Structural, optical, and electronic studies of wide-bandgap lead halide perovskites. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8839-8843	7.1	129
48	Superconductivity. Broken translational and rotational symmetry via charge stripe order in underdoped YBaCuO(6+y). <i>Science</i> , 2015 , 347, 1335-9	33.3	123
47	Dirac fermions and flat bands in the ideal kagome metal FeSn. <i>Nature Materials</i> , 2020 , 19, 163-169	27	121
46	Record Charge Carrier Diffusion Length in Colloidal Quantum Dot Solids via Mutual Dot-To-Dot Surface Passivation. <i>Advanced Materials</i> , 2015 , 27, 3325-30	24	103
45	Crosslinked Remote-Doped Hole-Extracting Contacts Enhance Stability under Accelerated Lifetime Testing in Perovskite Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 2807-15	24	94

44	Perovskite nickelates as electric-field sensors in salt water. <i>Nature</i> , 2018 , 553, 68-72	50.4	91
43	Enhancement of interlayer exchange in an ultrathin two-dimensional magnet. <i>Nature Physics</i> , 2019 , 15, 1255-1260	16.2	85
42	Snapshots of the retarded interaction of charge carriers with ultrafast fluctuations in cuprates. <i>Nature Physics</i> , 2015 , 11, 421-426	16.2	78
41	Habituation based synaptic plasticity and organismic learning in a quantum perovskite. <i>Nature Communications</i> , 2017 , 8, 240	17.4	60
40	Surface core level shifts of clean and oxygen covered Ir(111). <i>New Journal of Physics</i> , 2009 , 11, 063002	2.9	47
39	Topological flat bands in frustrated kagome lattice CoSn. <i>Nature Communications</i> , 2020 , 11, 4004	17.4	43
38	Carrier localization in perovskite nickelates from oxygen vacancies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 21992-21997	11.5	41
37	Structural origin of apparent Fermi surface pockets in angle-resolved photoemission of BiBr(2-x)La(x)CuO(6+ δ). <i>Physical Review Letters</i> , 2011 , 106, 127005	7.4	36
36	Pure Cubic-Phase Hybrid Iodobismuthates AgBi ₂ I ₇ for Thin-Film Photovoltaics. <i>Angewandte Chemie</i> , 2016 , 128, 9738-9742	3.6	35
35	Lattice dynamics and the nature of structural transitions in organolead halide perovskites. <i>Physical Review B</i> , 2016 , 94,	3.3	34
34	Photo-enhanced antinodal conductivity in the pseudogap state of high-T _c cuprates. <i>Nature Communications</i> , 2014 , 5, 4353	17.4	33
33	Determining the surface-to-bulk progression in the normal-state electronic structure of Sr(2)RuO(4) by angle-resolved photoemission and density functional theory. <i>Physical Review Letters</i> , 2013 , 110, 097004	7.4	30
32	Temperature-independent thermal radiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 ,	11.5	27
31	Perovskite Quantum Dots Modeled Using ab Initio and Replica Exchange Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13965-13971	3.8	25
30	de Haas-van Alphen effect of correlated Dirac states in kagome metal FeSn. <i>Nature Communications</i> , 2019 , 10, 4870	17.4	20
29	Surface-enhanced charge-density-wave instability in underdoped Bi ₂ Sr(2-x)La(x)CuO(6+ δ). <i>Nature Communications</i> , 2013 , 4, 1977	17.4	20
28	Motttness at finite doping and charge-instabilities in cuprates. <i>Nature Physics</i> , 2017 , 13, 806-811	16.2	16
27	Twofold van Hove singularity and origin of charge order in topological kagome superconductor CsV ₃ Sb ₅ . <i>Nature Physics</i> ,	16.2	16

26	Anomalous Antiferromagnetism in Metallic RuO ₂ Determined by Resonant X-ray Scattering. <i>Physical Review Letters</i> , 2019 , 122, 017202	7.4	16
25	Bond order and the role of ligand states in stripe-modulated IrTe ₂ . <i>Physical Review B</i> , 2014 , 90,	3.3	15
24	Hard, transparent, sp ³ -containing 2D phase formed from few-layer graphene under compression. <i>Carbon</i> , 2021 , 173, 744-757	10.4	15
23	Voltage Control of Magnetism above Room Temperature in Epitaxial SrCoFeO. <i>ACS Nano</i> , 2020 , 14, 8949-8957	11.7	14
22	Evolution of charge order topology across a magnetic phase transition in cuprate superconductors. <i>Nature Physics</i> , 2019 , 15, 335-340	16.2	13
21	Scale-invariant magnetic textures in the strongly correlated oxide NdNiO. <i>Nature Communications</i> , 2019 , 10, 4568	17.4	13
20	Distinction between pristine and disorder-perturbed charge density waves in ZrTe. <i>Nature Communications</i> , 2020 , 11, 98	17.4	12
19	Evidence for a single-layer van der Waals multiferroic.. <i>Nature</i> , 2022 , 602, 601-605	50.4	12
18	Tracking local magnetic dynamics via high-energy charge excitations in a relativistic Mott insulator. <i>Physical Review B</i> , 2016 , 94,	3.3	11
17	Self-Assembled PbSe Nanowire:Perovskite Hybrids. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14869-72	16.4	10
16	Multiorbital charge-density wave excitations and concomitant phonon anomalies in BiSrLaCuO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16219-16225	11.5	9
15	Resolving the nature of electronic excitations in resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2019 , 99,	3.3	9
14	Cleavable Ligands Enable Uniform Close Packing in Colloidal Quantum Dot Solids. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21995-2000	9.5	8
13	Evolution of spin excitations from bulk to monolayer FeSe. <i>Nature Communications</i> , 2021 , 12, 3122	17.4	8
12	Response to Comment on "Broken translational and rotational symmetry via charge stripe order in underdoped YBa ₂ Cu ₃ O _{6+y} ". <i>Science</i> , 2016 , 351, 235	33.3	7
11	Sudden Collapse of Magnetic Order in Oxygen-Deficient Nickelate Films. <i>Physical Review Letters</i> , 2021 , 126, 187602	7.4	4
10	XMCD study of magnetism and valence state in iron-substituted strontium titanate. <i>Physical Review Materials</i> , 2019 , 3,	3.2	3
9	Thermal conductivity in self-assembled CoFe ₂ O ₄ /BiFeO ₃ vertical nanocomposite films. <i>Applied Physics Letters</i> , 2018 , 113, 223105	3.4	3

8	Electronic Band Tuning and Multivalley Raman Scattering in Monolayer Transition Metal Dichalcogenides at High Pressures.. <i>ACS Nano</i> , 2022 ,	16.7	3
7	Single-frame far-field diffractive imaging with randomized illumination. <i>Optics Express</i> , 2020 , 28, 37103-37117	3.5	1
6	First-principles calculation of oxygen vacancy effects on the magnetic properties of the perovskite SrNiO ₃ . <i>Physical Review Materials</i> , 2021 , 5,	3.2	1
5	Randomized probe imaging through deep k-learning.. <i>Optics Express</i> , 2022 , 30, 2247-2264	3.3	0
4	Maskless Fourier transform holography.. <i>Optics Express</i> , 2022 , 30, 403-413	3.3	0
3	Electron Microscopy to Probe Flat Band Topological Systems of 2D and Pseudo 2D Quantum Materials. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2376-2377	0.5	
2	Charge crystallization in a Fermi liquid. <i>Nature Materials</i> , 2018 , 17, 661-662	27	
1	Reply to: Perovskite decomposition and missing crystal planes in HRTEM. <i>Nature</i> , 2021 , 594, E8-E9	50.4	