

# Riccardo Frisenda

## List of Publications by Citations

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78  
papers

3,157  
citations

30  
h-index

55  
g-index

88  
ext. papers

4,165  
ext. citations

10.4  
avg, IF

5.69  
L-index

#	Paper	IF	Citations
78	Recent progress in the assembly of nanodevices and van der Waals heterostructures by deterministic placement of 2D materials. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 53-68	58.5	312
77	Signatures of quantum interference effects on charge transport through a single benzene ring. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 3152-5	16.4	170
76	Atomically thin p-n junctions based on two-dimensional materials. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 3339-3358	58.5	158
75	Bandgap engineering of two-dimensional semiconductor materials. <i>Npj 2D Materials and Applications</i> , <b>2020</b> , 4,	8.8	152
74	Large negative differential conductance in single-molecule break junctions. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 830-4	28.7	143
73	Mechanically controlled quantum interference in individual stacked dimers. <i>Nature Chemistry</i> , <b>2016</b> , 8, 1099-1104	17.6	124
72	Biaxial strain tuning of the optical properties of single-layer transition metal dichalcogenides. <i>Npj 2D Materials and Applications</i> , <b>2017</b> , 1,	8.8	118
71	Single-Molecule Spin Switch Based on Voltage-Triggered Distortion of the Coordination Sphere. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 13425-30	16.4	106
70	Thickness-Dependent Differential Reflectance Spectra of Monolayer and Few-Layer MoS <sub>2</sub> /MoSe <sub>2</sub> /WS <sub>2</sub> and WSe <sub>2</sub> . <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	106
69	Kondo effect in a neutral and stable all organic radical single molecule break junction. <i>Nano Letters</i> , <b>2015</b> , 15, 3109-14	11.5	93
68	A strain tunable single-layer MoS <sub>2</sub> photodetector. <i>Materials Today</i> , <b>2019</b> , 27, 8-13	21.8	91
67	The role of traps in the photocurrent generation mechanism in thin InSe photodetectors. <i>Materials Horizons</i> , <b>2020</b> , 7, 252-262	14.4	88
66	Micro-reflectance and transmittance spectroscopy: a versatile and powerful tool to characterize 2D materials. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 074002	3	80
65	Thickness-Dependent Refractive Index of 1L, 2L, and 3L MoS <sub>2</sub> , MoSe <sub>2</sub> , WS <sub>2</sub> , and WSe <sub>2</sub> . <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900239	8.1	80
64	Localized and Dispersive Electronic States at Ordered FePc and CoPc Chains on Au(110). <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 21638-21644	3.8	80
63	Signatures of Quantum Interference Effects on Charge Transport Through a Single Benzene Ring. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 3234-3237	3.6	67
62	Stretching-Induced Conductance Increase in a Spin-Crossover Molecule. <i>Nano Letters</i> , <b>2016</b> , 16, 4733-7	11.5	66

61	Statistical analysis of single-molecule breaking traces. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 2431-2436	1.3	52
60	Electrical properties and mechanical stability of anchoring groups for single-molecule electronics. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 1558-67	3	49
59	A comprehensive study of extended tetrathiafulvalene cruciform molecules for molecular electronics: synthesis and electrical transport measurements. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 16497-507	16.4	46
58	Quantum interference effects at room temperature in OPV-based single-molecule junctions. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 234	5	44
57	Polarization-Sensitive and Broadband Photodetection Based on a Mixed-Dimensionality TiS <sub>3</sub> /Si p $\bar{n}$ Junction. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800351	8.1	42
56	InSe: a two-dimensional semiconductor with superior flexibility. <i>Nanoscale</i> , <b>2019</b> , 11, 9845-9850	7.7	38
55	Effect of metal complexation on the conductance of single-molecular wires measured at room temperature. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 8314-22	16.4	38
54	Revisiting the Buckling Metrology Method to Determine the Young's Modulus of 2D Materials. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807150	24	37
53	Gate tunable photovoltaic effect in MoS <sub>2</sub> vertical p $\bar{n}$ homostructures. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 854-861	7.1	35
52	A reference-free clustering method for the analysis of molecular break-junction measurements. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 143102	3.4	35
51	Highly responsive UV-photodetectors based on single electrospun TiO <sub>2</sub> nanofibres. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 10707-10714	7.1	34
50	Characterization of highly crystalline lead iodide nanosheets prepared by room-temperature solution processing. <i>Nanotechnology</i> , <b>2017</b> , 28, 455703	3.4	33
49	Toward Air Stability of Thin GaSe Devices: Avoiding Environmental and Laser-Induced Degradation by Encapsulation. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1805304	15.6	31
48	Thickness determination of MoS <sub>2</sub> , MoSe <sub>2</sub> , WS <sub>2</sub> and WSe <sub>2</sub> on transparent stamps used for deterministic transfer of 2D materials. <i>Nano Research</i> , <b>2019</b> , 12, 1691-1695	10	30
47	Transition from Strong to Weak Electronic Coupling in a Single-Molecule Junction. <i>Physical Review Letters</i> , <b>2016</b> , 117, 126804	7.4	30
46	Quantum Transport through a Single Conjugated Rigid Molecule, a Mechanical Break Junction Study. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 1359-1367	24.3	30
45	Tracking molecular resonance forms of donor-acceptor push-pull molecules by single-molecule conductance experiments. <i>Nature Communications</i> , <b>2015</b> , 6, 10233	17.4	30
44	Progress on Black Phosphorus Photonics. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800365	8.1	29

43	InSe Schottky Diodes Based on Van Der Waals Contacts. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001307-6	7.6	27
42	Large birefringence and linear dichroism in TiS nanosheets. <i>Nanoscale</i> , <b>2018</b> , 10, 12424-12429	7.7	26
41	Naturally occurring van der Waals materials. <i>Npj 2D Materials and Applications</i> , <b>2020</b> , 4,	8.8	26
40	Superlattices based on van der Waals 2D materials. <i>Chemical Communications</i> , <b>2019</b> , 55, 11498-11510	5.8	25
39	Charge transport through conjugated azomethine-based single molecules for optoelectronic applications. <i>Organic Electronics</i> , <b>2016</b> , 34, 38-41	3.5	24
38	Optical contrast and refractive index of natural van der Waals heterostructure nanosheets of franckeite. <i>Beilstein Journal of Nanotechnology</i> , <b>2017</b> , 8, 2357-2362	3	21
37	Anisotropic buckling of few-layer black phosphorus. <i>Nanoscale</i> , <b>2019</b> , 11, 12080-12086	7.7	18
36	Microheater Actuators as a Versatile Platform for Strain Engineering in 2D Materials. <i>Nano Letters</i> , <b>2020</b> , 20, 5339-5345	11.5	16
35	Strain engineering in single-, bi- and tri-layer MoS <sub>2</sub> , MoSe <sub>2</sub> , WS <sub>2</sub> and WSe <sub>2</sub> . <i>Nano Research</i> , <b>2021</b> , 14, 1698-1703	10	16
34	A Versatile Scanning Photocurrent Mapping System to Characterize Optoelectronic Devices based on 2D Materials. <i>Small Methods</i> , <b>2017</b> , 1, 1700119	12.8	15
33	Mechanical and liquid phase exfoliation of cylindrite: a natural van der Waals superlattice with intrinsic magnetic interactions. <i>2D Materials</i> , <b>2019</b> , 6, 035023	5.9	15
32	MoS-on-paper optoelectronics: drawing photodetectors with van der Waals semiconductors beyond graphite. <i>Nanoscale</i> , <b>2020</b> , 12, 19068-19074	7.7	15
31	An inexpensive system for the deterministic transfer of 2D materials. <i>JPhys Materials</i> , <b>2020</b> , 3, 016001	4.2	15
30	Dielectrophoretic assembly of liquid-phase-exfoliated TiS nanoribbons for photodetecting applications. <i>Chemical Communications</i> , <b>2017</b> , 53, 6164-6167	5.8	14
29	Einzelmolekülspinschalter auf Basis spannungsinduzierter Verzerrung der Koordinationsphäre. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 13624-13630	3.6	14
28	Symmetry Breakdown in Franckeite: Spontaneous Strain, Rippling, and Interlayer Moiré. <i>Nano Letters</i> , <b>2020</b> , 20, 1141-1147	11.5	13
27	Giant Piezoresistive Effect and Strong Bandgap Tunability in Ultrathin InSe upon Biaxial Strain. <i>Advanced Science</i> , <b>2020</b> , 7, 2001645	13.6	13
26	High Throughput Characterization of Epitaxially Grown Single-Layer MoS <sub>2</sub> . <i>Electronics (Switzerland)</i> , <b>2017</b> , 6, 28	2.6	12

25	Gate-Switchable Photovoltaic Effect in BP/MoTe <sub>2</sub> van der Waals Heterojunctions for Self-Driven Logic Optoelectronics. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001802	8.1	12
24	Ultra-broad spectral photo-response in FePS <sub>3</sub> air-stable devices. <i>Npj 2D Materials and Applications</i> , <b>2021</b> , 5,	8.8	12
23	A system for the deterministic transfer of 2D materials under inert environmental conditions. <i>2D Materials</i> , <b>2020</b> , 7, 025034	5.9	11
22	Biaxial strain tuning of interlayer excitons in bilayer MoS <sub>2</sub> . <i>JPhys Materials</i> , <b>2020</b> , 3, 015003	4.2	11
21	Single-Molecule Break Junctions Based on a Perylene-Diimide Cyano-Functionalized (PDI8-CN <sub>2</sub> ) Derivative. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 1011	5	10
20	In-plane anisotropic optical and mechanical properties of two-dimensional MoO <sub>3</sub> . <i>Npj 2D Materials and Applications</i> , <b>2021</b> , 5,	8.8	9
19	Probing the local environment of a single OPE <sub>3</sub> molecule using inelastic tunneling electron spectroscopy. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 2477-2484	3	7
18	Drawing WS thermal sensors on paper substrates. <i>Nanoscale</i> , <b>2020</b> , 12, 22091-22096	7.7	7
17	Lithography-free electrical transport measurements on 2D materials by direct microprobing. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 11252-11258	7.1	6
16	Enhanced Separation Concept (ESC): Removing the Functional Subunit from the Electrode by Molecular Design. <i>European Journal of Organic Chemistry</i> , <b>2019</b> , 2019, 5334-5343	3.2	6
15	Thickness Identification of Thin InSe by Optical Microscopy Methods. <i>Advanced Photonics Research</i> , <b>2020</b> , 1, 2000025	1.9	6
14	Robotic assembly of artificial nanomaterials. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 441-442	28.7	6
13	Tunable Photodetectors via In Situ Thermal Conversion of TiS to TiO. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
12	Biaxial versus uniaxial strain tuning of single-layer MoS <sub>2</sub> . <i>Nano Materials Science</i> , <b>2021</b> ,	10.2	4
11	Biaxial strain in atomically thin transition metal dichalcogenides <b>2017</b> ,		3
10	A system to test 2D optoelectronic devices in high vacuum. <i>JPhys Materials</i> , <b>2020</b> , 3, 036001	4.2	3
9	Optical microscopyBased thickness estimation in thin GaSe flakes. <i>Materials Today Advances</i> , <b>2021</b> , 10, 100143	7.4	3
8	Integrating van der Waals materials on paper substrates for electrical and optical applications. <i>Applied Materials Today</i> , <b>2021</b> , 23, 101012	6.6	3

7	Photodiodes based in La 0.7 Sr 0.3 MnO 3 /single layer MoS 2 hybrid vertical heterostructures. <i>2D Materials</i> , <b>2017</b> , 4, 034002	5.9	2
6	Strongly Anisotropic Strain-Tunability of Excitons in Exfoliated ZrSe. <i>Advanced Materials</i> , <b>2021</b> , 34, e2103571	5.7	2
5	Integrating superconducting van der Waals materials on paper substrates. <i>Materials Advances</i> , <b>2021</b> , 2, 3274-3281	3.3	2
4	Stretching ReS2 along different crystal directions: Anisotropic tuning of the vibrational and optical responses. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 063101	3.4	1
3	Paper-supported WS2 strain gauges. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 332, 113204	3.9	1
2	Direct Growth of Graphene-MoS2 heterostructure: Tailored interface for Advanced Devices. <i>Applied Surface Science</i> , <b>2021</b> , 581, 151858	6.7	0
1	Fiber-coupled light-emitting diodes (LEDs) as safe and convenient light sources for the characterization of optoelectronic devices. <i>Open Research Europe</i> , 1, 98		0