

# Riccardo Frisenda

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8008481/riccardo-frisenda-publications-by-year.pdf>

**Version:** 2024-04-25

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.

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	Stretching ReS <sub>2</sub> 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
77	Direct Growth of Graphene-MoS <sub>2</sub> heterostructure: Tailored interface for Advanced Devices. <i>Applied Surface Science</i> , <b>2021</b> , 581, 151858	6.7	0
76	Paper-supported WS <sub>2</sub> strain gauges. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 332, 113204	3.9	1
75	Strongly Anisotropic Strain-Tunability of Excitons in Exfoliated ZrSe. <i>Advanced Materials</i> , <b>2021</b> , 34, e2103571	3.7	2
74	Biaxial versus uniaxial strain tuning of single-layer MoS <sub>2</sub> . <i>Nano Materials Science</i> , <b>2021</b> ,	10.2	4
73	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
72	Optical microscopyBased thickness estimation in thin GaSe flakes. <i>Materials Today Advances</i> , <b>2021</b> , 10, 100143	7.4	3
71	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
70	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
69	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
68	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
67	Integrating superconducting van der Waals materials on paper substrates. <i>Materials Advances</i> , <b>2021</b> , 2, 3274-3281	3.3	2
66	InSe Schottky Diodes Based on Van Der Waals Contacts. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001307	5.6	27
65	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
64	MoS <sub>2</sub> -on-paper optoelectronics: drawing photodetectors with van der Waals semiconductors beyond graphite. <i>Nanoscale</i> , <b>2020</b> , 12, 19068-19074	7.7	15
63	Symmetry Breakdown in Franckeite: Spontaneous Strain, Rippling, and Interlayer Moiré. <i>Nano Letters</i> , <b>2020</b> , 20, 1141-1147	11.5	13
62	An inexpensive system for the deterministic transfer of 2D materials. <i>JPhys Materials</i> , <b>2020</b> , 3, 016001	4.2	15

61	Tunable Photodetectors via In Situ Thermal Conversion of TIS to TiO. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
60	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
59	A system to test 2D optoelectronic devices in high vacuum. <i>JPhys Materials</i> , <b>2020</b> , 3, 036001	4.2	3
58	Thickness Identification of Thin InSe by Optical Microscopy Methods. <i>Advanced Photonics Research</i> , <b>2020</b> , 1, 2000025	1.9	6
57	Drawing WS thermal sensors on paper substrates. <i>Nanoscale</i> , <b>2020</b> , 12, 22091-22096	7.7	7
56	Naturally occurring van der Waals materials. <i>Npj 2D Materials and Applications</i> , <b>2020</b> , 4,	8.8	26
55	Bandgap engineering of two-dimensional semiconductor materials. <i>Npj 2D Materials and Applications</i> , <b>2020</b> , 4,	8.8	152
54	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
53	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
52	Biaxial strain tuning of interlayer excitons in bilayer MoS <sub>2</sub> . <i>JPhys Materials</i> , <b>2020</b> , 3, 015003	4.2	11
51	A strain tunable single-layer MoS <sub>2</sub> photodetector. <i>Materials Today</i> , <b>2019</b> , 27, 8-13	21.8	91
50	Anisotropic buckling of few-layer black phosphorus. <i>Nanoscale</i> , <b>2019</b> , 11, 12080-12086	7.7	18
49	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
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	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
46	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
45	InSe: a two-dimensional semiconductor with superior flexibility. <i>Nanoscale</i> , <b>2019</b> , 11, 9845-9850	7.7	38
44	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

43	Superlattices based on van der Waals 2D materials. <i>Chemical Communications</i> , <b>2019</b> , 55, 11498-11510	5.8	25
42	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
41	Atomically thin p-n junctions based on two-dimensional materials. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 3339-3358	58.5	158
40	Polarization-Sensitive and Broadband Photodetection Based on a Mixed-Dimensionality TiS <sub>3</sub> /Si p-n Junction. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800351	8.1	42
39	Progress on Black Phosphorus Photonics. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800365	8.1	29
38	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
37	Large birefringence and linear dichroism in TiS nanosheets. <i>Nanoscale</i> , <b>2018</b> , 10, 12424-12429	7.7	26
36	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
35	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
34	Thickness-Dependent Differential Reflectance Spectra of Monolayer and Few-Layer MoS <sub>2</sub> /MoSe <sub>2</sub> WSe <sub>2</sub> and WSe <sub>2</sub> . <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	106
33	Robotic assembly of artificial nanomaterials. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 441-442	28.7	6
32	Gate tunable photovoltaic effect in MoS <sub>2</sub> vertical p-n homostructures. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 854-861	7.1	35
31	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
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	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
28	Photodiodes based in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /single layer MoS <sub>2</sub> hybrid vertical heterostructures. <i>2D Materials</i> , <b>2017</b> , 4, 034002	5.9	2
27	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
26	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

25	Characterization of highly crystalline lead iodide nanosheets prepared by room-temperature solution processing. <i>Nanotechnology</i> , <b>2017</b> , 28, 455703	3.4	33
24	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
23	High Throughput Characterization of Epitaxially Grown Single-Layer MoS <sub>2</sub> . <i>Electronics (Switzerland)</i> , <b>2017</b> , 6, 28	2.6	12
22	Biaxial strain in atomically thin transition metal dichalcogenides <b>2017</b> ,		3
21	Mechanically controlled quantum interference in individual $\pi$ -stacked dimers. <i>Nature Chemistry</i> , <b>2016</b> , 8, 1099-1104	17.6	124
20	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
19	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
18	Charge transport through conjugated azomethine-based single molecules for optoelectronic applications. <i>Organic Electronics</i> , <b>2016</b> , 34, 38-41	3.5	24
17	Stretching-Induced Conductance Increase in a Spin-Crossover Molecule. <i>Nano Letters</i> , <b>2016</b> , 16, 4733-7	11.5	66
16	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
15	Einzelmolekül-Spinschalter auf Basis spannungsinduzierter Verzerrung der Koordinationssphäre. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 13624-13630	3.6	14
14	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
13	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
12	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
11	Probing the local environment of a single OPE3 molecule using inelastic tunneling electron spectroscopy. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 2477-2484	3	7
10	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
9	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
8	Large negative differential conductance in single-molecule break junctions. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 830-4	28.7	143

7	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
6	Quantum interference effects at room temperature in OPV-based single-molecule junctions. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 234	5	44
5	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
4	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
3	Statistical analysis of single-molecule breaking traces. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 2431-2436	1.3	52
2	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
1	Fiber-coupled light-emitting diodes (LEDs) as safe and convenient light sources for the characterization of optoelectronic devices. <i>Open Research Europe</i> , <b>1</b> , 98		0