Sense Jan van der Molen

List of Publications by Year
in descending order

41 papers	2,768 citations	257450 24 h-index	302126 39 g-index
42 all docs	42 docs citations	42 times ranked	3536 citing authors

#	Article	IF	Citations
1	Observation of quantum interference in molecular charge transport. Nature Nanotechnology, 2012, 7, 305-309.	31.5	465
2	Light-Controlled Conductance Switching of Ordered Metalâ˘'Moleculeâ˘'Metal Devices. Nano Letters, 2009, 9, 76-80.	9.1	299
3	Charge transport through molecular switches. Journal of Physics Condensed Matter, 2010, 22, 133001.	1.8	250
4	Interpretation of Transition Voltage Spectroscopy. Nano Letters, 2009, 9, 3909-3913.	9.1	217
5	Electrical Conductance of Molecular Junctions by a Robust Statistical Analysis. Nano Letters, 2006, 6, 2238-2242.	9.1	189
6	Observation of flat bands in twisted bilayer graphene. Nature Physics, 2021, 17, 189-193.	16.7	144
7	Uni- and bi-directional light-induced switching of diarylethenes on gold nanoparticles. Chemical Communications, 2006, , 3597.	4.1	121
8	Cross-conjugation and quantum interference: a general correlation?. Physical Chemistry Chemical Physics, 2014, 16, 653-662.	2.8	116
9	Ordered nanoparticle arrays interconnected by molecular linkers: electronic and optoelectronic properties. Chemical Society Reviews, 2015, 44, 999-1014.	38.1	80
10	Spin Transition in Arrays of Gold Nanoparticles and Spin Crossover Molecules. ACS Nano, 2015, 9, 4496-4507.	14.6	77
11	Visions for a molecular future. Nature Nanotechnology, 2013, 8, 385-389.	31.5	70
12	Humidity-controlled rectification switching in ruthenium-complex molecular junctions. Nature Nanotechnology, 2018, 13, 117-121.	31.5	68
13	Single Atom Adhesion in Optimized Gold Nanojunctions. Physical Review Letters, 2008, 100, 175502.	7.8	65
14	Spectroscopy of Molecular Junction Networks Obtained by Place Exchange in 2D Nanoparticle Arrays. Journal of Physical Chemistry C, 2007, 111, 18445-18450.	3.1	61
15	Transition Voltage Spectroscopy and the Nature of Vacuum Tunneling. Nano Letters, 2011, 11, 614-617.	9.1	60
16	Optimizing rotary processes in synthetic molecular motors. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16919-16924.	7.1	59
17	Universal Scaling in Highly Doped Conducting Polymer Films. Physical Review Letters, 2010, 105, 156604.	7.8	53
18	Nanoscale measurements of unoccupied band dispersion in few-layer graphene. Nature Communications, 2015, 6, 8926.	12.8	43

#	Article	IF	Citations
19	Key Role of Very Low Energy Electrons in Tin-Based Molecular Resists for Extreme Ultraviolet Nanolithography. ACS Applied Materials & Interfaces, 2020, 12, 9881-9889.	8.0	40
20	Enhancing the Molecular Signature in Moleculeâ€Nanoparticle Networks Via Inelastic Cotunneling. Advanced Materials, 2013, 25, 400-404.	21.0	38
21	Stabilizing Single Atom Contacts by Molecular Bridge Formation. Nano Letters, 2008, 8, 3381-3385.	9.1	37
22	Intrinsic Instability of Aberration-Corrected Electron Microscopes. Physical Review Letters, 2012, 109, 163901.	7.8	37
23	Toggled with electrical current. Nature Nanotechnology, 2013, 8, 622-623.	31.5	32
24	Quantifying electronic band interactions in van der Waals materials using angle-resolved reflected-electron spectroscopy. Nature Communications, 2016, 7, 13621.	12.8	32
25	Measuring local moirÃ© lattice heterogeneity of twisted bilayer graphene. Physical Review Research, 2021, 3, .	3.6	16
26	Imaging moirÃ© deformation and dynamics in twisted bilayer graphene. Nature Communications, 2022, 13, 70.	12.8	16
27	Quantifying work function differences using low-energy electron microscopy: The case of mixed-terminated strontium titanate. Ultramicroscopy, 2019, 200, 43-49.	1.9	13
28	Optical tracing of multiple charges in single-electron devices. Physical Review B, 2014, 90, .	3.2	11
29	eV-TEM: Transmission electron microscopy in a low energy cathode lens instrument. Ultramicroscopy, 2015, 159, 482-487.	1.9	11
30	Measuring the Local Twist Angle and Layer Arrangement in Van der Waals Heterostructures. Physica Status Solidi (B): Basic Research, 2018, 255, 1800191.	1.5	11
31	Quantitative analysis of spectroscopic low energy electron microscopy data: High-dynamic range imaging, drift correction and cluster analysis. Ultramicroscopy, 2020, 213, 112913.	1.9	8
32	Charge Catastrophe and Dielectric Breakdown During Exposure of Organic Thin Films to Low-Energy Electron Radiation. Physical Review Letters, 2017, 119, 266803.	7.8	6
33	Optical Near-Field Electron Microscopy. Physical Review Applied, 2021, 16, .	3.8	5
34	The influence of molecular mobility on the properties of networks of gold nanoparticles and organic ligands. Beilstein Journal of Nanotechnology, 2014, 5, 1664-1674.	2.8	4
35	Complementary LEEM and eV-TEM for imaging and spectroscopy. Ultramicroscopy, 2021, 222, 113199.	1.9	4
36	Imaging pulsed laser deposition growth of homo-epitaxial SrTiO₃by low-energy electron microscopy. Nanotechnology, 2016, 27, 495702.	2.6	3

#	Article	IF	Citations
37	Low-energy electron potentiometry. Ultramicroscopy, 2017, 181, 74-80.	1.9	2
38	Low-Energy Electron Irradiation Damage in Few-Monolayer Pentacene Films. Journal of Physical Chemistry C, 2021, 125, 26150-26156.	3.1	2
39	Growing a LaAlO3/SrTiO3 heterostructure on Ca2Nb3O10 nanosheets. Scientific Reports, 2019, 9, 17617.	3.3	1
40	Intrinsic and extrinsic switching in molecular devices. , 2015, , .		0
41	A new perspective on new materials. Europhysics News, 2018, 49, 23-26.	0.3	0