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	Imaging moirÃ© deformation and dynamics in twisted bilayer graphene. Nature Communications, 2022, 13, 70.	12.8	16
2	Observation of flat bands in twisted bilayer graphene. Nature Physics, 2021, 17, 189-193.	16.7	144
3	Measuring local moirÃ© lattice heterogeneity of twisted bilayer graphene. Physical Review Research, 2021, 3, .	3.6	16
4	Complementary LEEM and eV-TEM for imaging and spectroscopy. Ultramicroscopy, 2021, 222, 113199.	1.9	4
5	Optical Near-Field Electron Microscopy. Physical Review Applied, 2021, 16, .	3.8	5
6	Low-Energy Electron Irradiation Damage in Few-Monolayer Pentacene Films. Journal of Physical Chemistry C, 2021, 125, 26150-26156.	3.1	2
7	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
8	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
9	Quantifying work function differences using low-energy electron microscopy: The case of mixed-terminated strontium titanate. Ultramicroscopy, 2019, 200, 43-49.	1.9	13
10	Growing a LaAlO3/SrTiO3 heterostructure on Ca2Nb3O10 nanosheets. Scientific Reports, 2019, 9, 17617.	3.3	1
11	Humidity-controlled rectification switching in ruthenium-complex molecular junctions. Nature Nanotechnology, 2018, 13, 117-121.	31.5	68
12	A new perspective on new materials. Europhysics News, 2018, 49, 23-26.	0.3	0
13	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
14	Low-energy electron potentiometry. Ultramicroscopy, 2017, 181, 74-80.	1.9	2
15	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
16	Quantifying electronic band interactions in van der Waals materials using angle-resolved reflected-electron spectroscopy. Nature Communications, 2016, 7, 13621.	12.8	32
17	Imaging pulsed laser deposition growth of homo-epitaxial SrTiO₃by low-energy electron microscopy. Nanotechnology, 2016, 27, 495702.	2.6	3
18	Intrinsic and extrinsic switching in molecular devices. , 2015, , .		0

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19	Spin Transition in Arrays of Gold Nanoparticles and Spin Crossover Molecules. ACS Nano, 2015, 9, 4496-4507.	14.6	77
20	eV-TEM: Transmission electron microscopy in a low energy cathode lens instrument. Ultramicroscopy, 2015, 159, 482-487.	1.9	11
21	Nanoscale measurements of unoccupied band dispersion in few-layer graphene. Nature Communications, 2015, 6, 8926.	12.8	43
22	Ordered nanoparticle arrays interconnected by molecular linkers: electronic and optoelectronic properties. Chemical Society Reviews, 2015, 44, 999-1014.	38.1	80
23	Optical tracing of multiple charges in single-electron devices. Physical Review B, 2014, 90, .	3.2	11
24	Cross-conjugation and quantum interference: a general correlation?. Physical Chemistry Chemical Physics, 2014, 16, 653-662.	2.8	116
25	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
26	Toggled with electrical current. Nature Nanotechnology, 2013, 8, 622-623.	31.5	32
27	Visions for a molecular future. Nature Nanotechnology, 2013, 8, 385-389.	31.5	70
28	Enhancing the Molecular Signature in Moleculeâ€Nanoparticle Networks Via Inelastic Cotunneling. Advanced Materials, 2013, 25, 400-404.	21.0	38
29	Intrinsic Instability of Aberration-Corrected Electron Microscopes. Physical Review Letters, 2012, 109, 163901.	7.8	37
30	Observation of quantum interference in molecular charge transport. Nature Nanotechnology, 2012, 7, 305-309.	31.5	465
31	Transition Voltage Spectroscopy and the Nature of Vacuum Tunneling. Nano Letters, 2011, 11, 614-617.	9.1	60
32	Universal Scaling in Highly Doped Conducting Polymer Films. Physical Review Letters, 2010, 105, 156604.	7.8	53
33	Charge transport through molecular switches. Journal of Physics Condensed Matter, 2010, 22, 133001.	1.8	250
34	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
35	Interpretation of Transition Voltage Spectroscopy. Nano Letters, 2009, 9, 3909-3913.	9.1	217
36	Light-Controlled Conductance Switching of Ordered Metalâ^'Moleculeâ^'Metal Devices. Nano Letters, 2009, 9, 76-80.	9.1	299

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37	Single Atom Adhesion in Optimized Gold Nanojunctions. Physical Review Letters, 2008, 100, 175502.	7.8	65
38	Stabilizing Single Atom Contacts by Molecular Bridge Formation. Nano Letters, 2008, 8, 3381-3385.	9.1	37
39	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
40	Uni- and bi-directional light-induced switching of diarylethenes on gold nanoparticles. Chemical Communications, 2006, , 3597.	4.1	121
41	Electrical Conductance of Molecular Junctions by a Robust Statistical Analysis. Nano Letters, 2006, 6, 2238-2242.	9.1	189