Joseph W Lyding

List of Publications by Year in descending order

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Version: 2024-02-01

44 papers

2,137 citations

430874 18 h-index 330143 37 g-index

44 all docs 44 docs citations

44 times ranked 4101 citing authors

#	Article	IF	CITATIONS
1	Enhanced Electrical and Mechanical Properties of Chemically Cross-Linked Carbon-Nanotube-Based Fibers and Their Application in High-Performance Supercapacitors. ACS Nano, 2020, 14, 632-639.	14.6	44
2	Coherent Atomic-Scale Ripples on Metallic Glasses Patterned by Low-Energy Ion Irradiation for Large-Area Surface Structuring. ACS Applied Nano Materials, 2020, 3, 12025-12033.	5.0	4
3	Chevron-type graphene nanoribbons with a reduced energy band gap: Solution synthesis, scanning tunneling microscopy and electrical characterization. Nano Research, 2020, 13, 1713-1722.	10.4	12
4	Imaging of Carbon Nanotube Electronic States Polarized by the Field of an Excited Quantum Dot. ACS Nano, 2019, 13, 1012-1018.	14.6	3
5	Strain Modulation of Graphene by Nanoscale Substrate Curvatures: A Molecular View. Nano Letters, 2018, 18, 2098-2104.	9.1	62
6	Orientation-dependent imaging of electronically excited quantum dots. Journal of Chemical Physics, 2018, 148, 064701.	3.0	13
7	STM Imaging of Localized Surface Plasmons on Individual Gold Nanoislands. Journal of Physical Chemistry Letters, 2018, 9, 1970-1976.	4.6	11
8	Imaging and Manipulating Energy Transfer Among Quantum Dots at Individual Dot Resolution. ACS Nano, 2017, 11, 6328-6335.	14.6	17
9	Intrinsic nanoscale patterning. Nature Materials, 2017, 16, 706-707.	27.5	0
10	Solution-Synthesized Chevron Graphene Nanoribbons Exfoliated onto H:Si(100). Nano Letters, 2017, 17, 170-178.	9.1	49
10	Solution-Synthesized Chevron Graphene Nanoribbons Exfoliated onto H:Si(100). Nano Letters, 2017, 17, 170-178. Interfacial Self-Assembly of Atomically Precise Graphene Nanoribbons into Uniform Thin Films for Electronics Applications. ACS Applied Materials & Self-Assembly of Atomically Precise Graphene Nanoribbons into Uniform Thin Films for Electronics Applications. ACS Applied Materials & Self-Assembly of Atomically Precise Graphene Nanoribbons into Uniform Thin Films for Electronics Applications. ACS Applied Materials & Self-Assembly of Atomically Precise Graphene Nanoribbons into Uniform Thin Films for Electronics Applications. ACS Applied Materials & Self-Assembly of Atomically Precise Graphene Nanoribbons into Uniform Thin Films for Electronics Applications.	9.1 8.0	49
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11	Interfacial Self-Assembly of Atomically Precise Graphene Nanoribbons into Uniform Thin Films for Electronics Applications. ACS Applied Materials & Samp; Interfaces, 2017, 9, 693-700. Laterally extended atomically precise graphene nanoribbons with improved electrical conductivity	8.0	22
11 12	Interfacial Self-Assembly of Atomically Precise Graphene Nanoribbons into Uniform Thin Films for Electronics Applications. ACS Applied Materials & Distriction among the Electronics Applications. ACS Applied Materials & Distriction among the Electronics Applications. ACS Applied Materials & Distriction among the Electronics Applications. ACS Applied Materials & Distriction among the Electronics Applications. ACS Applied Materials & Distriction among the Electronics Applications. ACS Applied Materials & Distriction among the Electronics Applications. ACS Applied Materials & Distriction among the Electronics Applications. ACS Applied Materials & Distriction among the Electronics Applications. ACS Applied Materials & Distriction among the Electronics Applications. ACS Applied Materials & Distriction among the Electronics Applications. ACS Applied Materials & Distriction among the Electronics Applied Mat	8.0	113
11 12 13	Interfacial Self-Assembly of Atomically Precise Graphene Nanoribbons into Uniform Thin Films for Electronics Applications. ACS Applied Materials & Description of Electronics Applied	8.0 12.8 2.8	22 113 9
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19	Optoelectronic Switching of a Carbon Nanotube Chiral Junction Imaged with Nanometer Spatial Resolution. ACS Nano, 2015, 9, 10563-10570.	14.6	23
20	Variability of graphene mobility and contacts: Surface effects, doping and strain. , 2014, , .		0
21	Transparent Metal Films for Detection of Single-Molecule Optical Absorption by Scanning Tunneling Microscopy. Journal of Physical Chemistry C, 2014, 118, 13196-13202.	3.1	15
22	Scanning tunneling spectroscopy and density functional calculation of silicon dangling bonds on the Si(100)-2×1:H surface. Surface Science, 2013, 609, 147-151.	1.9	18
23	Nanosoldering Carbon Nanotube Junctions by Local Chemical Vapor Deposition for Improved Device Performance. Nano Letters, 2013, 13, 5844-5850.	9.1	36
24	Growth mechanism and surface atomic structure of AgInSe2. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	2.1	5
25	Atomic-scale study of scattering and electronic properties of CVD graphene grain boundaries., 2012,,.		1
26	Improved graphene growth and fluorination on Cu with clean transfer to surfaces. , 2012, , .		2
27	Nanosoldering carbon nanotube junctions with metal via local chemical vapor deposition for improved device performance. , 2012, , .		0
28	Scanning tunneling microscopic analysis of Cu(In,Ga)Se2 epitaxial layers. Journal of Applied Physics, 2010, 107, .	2.5	11
29	Separation-Dependent Electronic Transparency of Monolayer Graphene Membranes on Illâ'V Semiconductor Substrates. Nano Letters, 2010, 10, 3446-3452.	9.1	31
30	Scanning tunneling microscopy as a probe of defects in CulnSe <inf>2</inf> ., 2010,,.		0
31	Direct Imaging of Room Temperature Optical Absorption with Subnanometer Spatial Resolution. Nano Letters, 2010, 10, 4897-4900.	9.1	14
32	The influence of edge structure on the electronic properties of graphene quantum dots and nanoribbons. Nature Materials, 2009, 8, 235-242.	27.5	1,270
33	A simple approach to superlattices. Nature Nanotechnology, 2009, 4, 545-546. Carbon nanotubes on partially depassivated <mml:math< td=""><td>31.5</td><td>1</td></mml:math<>	31.5	1
34	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mi>n</mml:mi> -doped <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mm< td=""><td>3.2 ml·mn \ 100</td><td>8 0</td></mm<></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:math>	3.2 ml·mn \ 100	8 0
35	Physical Review B, 2009, 80,. Charge transfer between semiconducting carbon nanotubes and their doped GaAs(110) and InAs(110) substrates detected by scanning tunnelling spectroscopy. Nanotechnology, 2007, 18, 215202.	2.6	16
36	Frequency-Modulated, Single-Molecule Absorption Detected by Scanning Tunneling Microscopy. Journal of Physical Chemistry C, 2007, 111, 3314-3321.	3.1	20

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37	Lateral Manipulation of Single-Walled Carbon Nanotubes on H-Passivated Si(100) Surfaces with an Ultrahigh-Vacuum Scanning Tunneling Microscope. Small, 2007, 3, 146-152.	10.0	28
38	Metal-Induced Gap States at a Carbon-Nanotube Intramolecular Heterojunction Observed by Scanning Tunneling Microscopy. Small, 2007, 3, 280-284.	10.0	23
39	Laser Absorption Scanning Tunneling Microscopy of Carbon Nanotubes. Nano Letters, 2006, 6, 45-49.	9.1	32
40	Depth Dependence of Dopant Induced Features on The $Si(100)2x1$:H Surface and Its Application for Three Dimensional Dopant Profiling. Materials Research Society Symposia Proceedings, 2001, 699, 451.	0.1	1
41	Scanning Tunneling Microscopy Observation Of Single Dangling Bonds on the Si(100)2×1:H Surface. Materials Research Society Symposia Proceedings, 2001, 705, 661.	0.1	4
42	Fundamental connection between hydrogen/deuterium desorption at silicon surfaces in ultrahigh vacuum and at oxide/silicon interfaces in metal–oxide–semiconductor devices. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 1119.	1.6	4
43	Secondary ion mass spectroscopy characterization of the deuterium sintering process for enhanced-lifetime complementary metal–oxide–semiconductor transistors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 1762-1766.	2.1	22
44	An Alternative Approach for Modeling the Hot Carrier Degradation of the Si/SiO2 Interface. Materials Research Society Symposia Proceedings, 1998, 513, 313.	0.1	0