Lothar Ley

List of Publications by Year in descending order

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218677 155660 5,358 60 26 55 h-index citations g-index papers 64 64 64 7382 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Towards wafer-size graphene layers by atmospheric pressure graphitization of silicon carbide. Nature Materials, 2009, 8, 203-207.	27.5	2,396
2	Functionalization of Single-Walled Carbon Nanotubes with (R-)Oxycarbonyl Nitrenes. Journal of the American Chemical Society, 2003, 125, 8566-8580.	13.7	520
3	Effect of SOCI2 Treatment on Electrical and Mechanical Properties of Single-Wall Carbon Nanotube Networks. Journal of the American Chemical Society, 2005, 127, 5125-5131.	13.7	330
4	Doping of single-walled carbon nanotube bundles by Brønsted acids. Physical Chemistry Chemical Physics, 2003, 5, 5472-5476.	2.8	192
5	Nucleophilicâ^'Alkylationâ^'Reoxidation:Â A Functionalization Sequence for Single-Wall Carbon Nanotubes. Journal of the American Chemical Society, 2006, 128, 6683-6689.	13.7	156
6	Angle-resolved uv photoemission and electronic band structures of the lead chalcogenides. Physical Review B, 1978, 18, 3847-3871.	3.2	130
7	[2+1] cycloaddition for cross-linking SWCNTs. Carbon, 2004, 42, 941-947.	10.3	121
8	Raman scattering in polycrystalline3Câ^'SiC:â€fInfluence of stacking faults. Physical Review B, 1998, 58, 9858-9862.	3.2	114
9	Band tails in hydrogenated amorphous silicon and silicon-germanium alloys. Physical Review Letters, 1990, 64, 2811-2814.	7.8	100
10	Photoemission and optical properties. Topics in Applied Physics, 1984, , 61-168.	0.8	83
11	Calculation the Mainered France Claud Alignment of Organia Malagulas on Matal Ovidas, Advanced		
	Calculating the Universal Energy‣evel Alignment of Organic Molecules on Metal Oxides. Advanced Functional Materials, 2013, 23, 794-805.	14.9	79
12	Calculating the Universal Energya Level Alignment of Organic Molecules on Metal Oxides. Advanced Functional Materials, 2013, 23, 794-805. Quantitative evaluation of biaxial strain in epitaxial 3C-SiC layers on Si(100) substrates by Raman spectroscopy. Journal of Applied Physics, 2002, 91, 1113-1117.	2.5	79
	Functional Materials, 2013, 23, 794-805. Quantitative evaluation of biaxial strain in epitaxial 3C-SiC layers on Si(100) substrates by Raman		
12	Functional Materials, 2013, 23, 794-805. Quantitative evaluation of biaxial strain in epitaxial 3C-SiC layers on Si(100) substrates by Raman spectroscopy. Journal of Applied Physics, 2002, 91, 1113-1117.	2.5	77
12	Functional Materials, 2013, 23, 794-805. Quantitative evaluation of biaxial strain in epitaxial 3C-SiC layers on Si(100) substrates by Raman spectroscopy. Journal of Applied Physics, 2002, 91, 1113-1117. Electrochemical Surface Transfer Doping. Journal of the Electrochemical Society, 2004, 151, E315. Alternative techniques to reduce interface traps in nâ€type 4Hâ€6iC MOS capacitors. Physica Status Solidi	2.5	77
12 13 14	Functional Materials, 2013, 23, 794-805. Quantitative evaluation of biaxial strain in epitaxial 3C-SiC layers on Si(100) substrates by Raman spectroscopy. Journal of Applied Physics, 2002, 91, 1113-1117. Electrochemical Surface Transfer Doping. Journal of the Electrochemical Society, 2004, 151, E315. Alternative techniques to reduce interface traps in nâ€type 4Hâ€SiC MOS capacitors. Physica Status Solidi (B): Basic Research, 2008, 245, 1378-1389.	2.5 2.9 1.5	77 71 64
12 13 14	Functional Materials, 2013, 23, 794-805. Quantitative evaluation of biaxial strain in epitaxial 3C-SiC layers on Si(100) substrates by Raman spectroscopy. Journal of Applied Physics, 2002, 91, 1113-1117. Electrochemical Surface Transfer Doping. Journal of the Electrochemical Society, 2004, 151, E315. Alternative techniques to reduce interface traps in nâ€type 4Hâ€siC MOS capacitors. Physica Status Solidi (B): Basic Research, 2008, 245, 1378-1389. Surface transfer doping of diamond by fullerene. Diamond and Related Materials, 2005, 14, 451-458. Diamond Surfaces with Airâ€stable Negative Electron Affinity and Giant Electron Yield Enhancement.	2.5 2.9 1.5	77 71 64 58

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19	Quantitative determination of oxidative defects on single walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 3217-3220.	1.5	47
20	Characteristics of solution gated field effect transistors on the basis of epitaxial graphene on silicon carbide. Journal Physics D: Applied Physics, 2010, 43, 345303.	2.8	47
21	Quasi-Freestanding Graphene on SiC(0001). Materials Science Forum, 0, 645-648, 629-632.	0.3	46
22	Strong and Tunable Spin–Orbit Coupling in a Two-Dimensional Hole Gas in Ionic-Liquid Gated Diamond Devices. Nano Letters, 2016, 16, 3768-3773.	9.1	45
23	Hydrothermal functionalisation of single-walled carbon nanotubes. Synthetic Metals, 2004, 142, 263-266.	3.9	40
24	Spin–Orbit Interaction in a Two-Dimensional Hole Gas at the Surface of Hydrogenated Diamond. Nano Letters, 2015, 15, 16-20.	9.1	39
25	Effect of an intermediate graphite layer on the electronic properties of metal/SiC contacts. Physica Status Solidi (B): Basic Research, 2008, 245, 1369-1377.	1.5	32
26	Photoelectron emission from lithiated diamond. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2209-2222.	1.8	30
27	MoO3 induces p-type surface conductivity by surface transfer doping in diamond. Applied Surface Science, 2020, 509, 144890.	6.1	30
28	Universal Work Function of Metal Oxides Exposed to Air. Advanced Materials Interfaces, 2019, 6, 1802058.	3.7	29
29	Formation of a silicon terminated (100) diamond surface. Applied Physics Letters, 2015, 106, .	3.3	28
30	Modification of Single-Walled Carbon Nanotubes by Hydrothermal Treatment. Chemistry of Materials, 2003, 15, 3314-3319.	6.7	24
31	Hydrogen-terminated diamond electrodes. I. Charges, potentials, and energies. Physical Review E, 2008, 78, 041602.	2.1	24
32	Attosecond-fast internal photoemission. Nature Photonics, 2020, 14, 219-222.	31.4	23
33	Random telegraphic noise in large area a-Si:H/a-Si1â^'xNx:H double barrier structures. Journal of Non-Crystalline Solids, 1989, 114, 696-697.	3.1	22
34	Doping efficiency and energy-level scheme in C60F48-doped zinc–tetraphenylporphyrin films. Organic Electronics, 2013, 14, 169-174.	2.6	22
35	G-factor and well width variations for the two-dimensional hole gas in surface conducting diamond. Applied Physics Letters, 2018, 112, .	3.3	18
36	Hydrogen-terminated diamond electrodes. II. Redox activity. Physical Review E, 2008, 78, 041603.	2.1	17

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37	Electronic Structure of Graphite/6H-SiC Interfaces. Materials Science Forum, 2007, 556-557, 701-704.	0.3	15
38	Hydrogen-related defects in hydrogenated amorphous semiconductors. Physical Review B, 1991, 44, 1066-1073.	3.2	14
39	Preparation of low index single crystal diamond surfaces for surface science studies. Diamond and Related Materials, 2011, 20, 418-427.	3.9	14
40	Temperature effects on valence bands in semiconducting lead chalcogenides. Solid State Communications, 1979, 32, 353-356.	1.9	11
41	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>g</mml:mi></mml:math> -factor and well-width fluctuations as a function of carrier density in the two-dimensional hole accumulation layer of transfer-doped diamond. Physical Review B, 2019, 99, .	3.2	11
42	Strong spin-orbit interaction induced by transition metal oxides at the surface of hydrogen-terminated diamond. Carbon, 2020, 164, 244-250.	10.3	11
43	Defects and disorder broadened band tails in compensated hydrogenated amorphous silicon. Journal of Non-Crystalline Solids, 1991, 137-138, 387-390.	3.1	9
44	Determination of conduction-band states in GaAs(110), InP(110), and InAs(110). Physical Review B, 1993, 47, 12625-12635.	3.2	9
45	Engineering the spin $\hat{a}\in \hat{b}$ orbit interaction in surface conducting diamond with a solid-state gate dielectric. Applied Physics Letters, 2020, 116 , .	3.3	6
46	Individual electronic defect states in a-Si:H/a-SiNx:H double barrier structures. Journal of Non-Crystalline Solids, 1991, 137-138, 1107-1110.	3.1	5
47	Correlation between electronic micro-roughness and surface topography in two-dimensional surface conducting hydrogen-terminated diamond. Diamond and Related Materials, 2021, 116, 108377.	3.9	5
48	Surface Conductivity of Diamond., 2009,, 69-102.		4
49	Direct observation of phonon emission from hot electrons: spectral features in diamond secondary electron emission. Journal of Physics Condensed Matter, 2014, 26, 395008.	1.8	4
50	Conduction-band states in GaSb(110) and GaP(110) at the Brillouin-zone center. Physical Review B, 1993, 48, $14301-14308$.	3.2	3
51	Contactless Measurement of the Thermal Conductivity of Thin SiC Layers. Materials Science Forum, 1998, 264-268, 657-660.	0.3	3
52	Conduction-band states and surface core excitons in InSb(110) and other III-V compounds. Physical Review B, 1994, 50, 7384-7388.	3.2	2
53	Cross-sectional scanning tunneling and scanning force microscopy of amorphous hydrogenated silicon pn-doping superlattices in nitrogen and in air. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1994, 12. 2440.	1.6	2
54	Energy level alignment at the porphyrin/cobaltocene interface: From transfer doping to cobalt intercalation. Organic Electronics, 2014, 15, 531-536.	2.6	2

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#	Article	lF	CITATION
55	Modification of Electrical and Mechanical Properties of Single Wall Carbon Nanotubes by Reaction with SOCl2. Materials Research Society Symposia Proceedings, 2003, 772, 311.	0.1	2
56	Fuctionalization of Single-Walled Carbon Nanotubes with Organo-Lithium Compounds: A Combined XPS, STM, and AFM study. AIP Conference Proceedings, 2005, , .	0.4	1
57	Surface Conductivity of Diamond: A Novel Doping Mechanism. Advances in Science and Technology, 2006, 48, 93-102.	0.2	1
58	Near-surface defects in amorphous semiconductors related to hydrogen incorporation. Journal of Non-Crystalline Solids, 1991, 137-138, 327-330.	3.1	0
59	Cross-sectional scanning-tunneling-spectroscopy of a-Si:H pn-doping superlattices. Superlattices and Microstructures, 1994, 16, 271-274.	3.1	O
60	High-field magnetotransport studies of surface-conducting diamonds. Physical Review B, 2022, 105, .	3.2	0