Laurence D Marks

List of Publications by Year
in descending order

233 papers	10,932 citations	44069 48 h-index	32842 100 g-index
234 all docs	234 docs citations	234 times ranked	11297 citing authors

#	Article	IF	Citations
1	WIEN2k: An APW+lo program for calculating the properties of solids. Journal of Chemical Physics, 2020, 152, 074101.	3.0	1,185
2	Identification of active sites in CO oxidation and water-gas shift over supported Pt catalysts. Science, 2015, 350, 189-192.	12.6	948
3	Experimental studies of small particle structures. Reports on Progress in Physics, 1994, 57, 603-649.	20.1	838
4	Surface structure and energetics of multiply twinned particles. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1984, 49, 81-93.	0.6	354
5	The structure and chemistry of the TiO2-rich surface of SrTiO3 (001). Nature, 2002, 419, 55-58.	27.8	342
6	Direct surface imaging in small metal particles. Nature, 1983, 303, 316-317.	27.8	250
7	Elastic strains and the energy balance for multiply twinned particles. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1984, 49, 95-109.	0.6	249
8	Correlated Structure and Optical Property Studies of Plasmonic Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 9291-9305.	3.1	217
9	Graphitic Tribological Layers in Metal-on-Metal Hip Replacements. Science, 2011, 334, 1687-1690.	12.6	199
10	Direct Imaging of Carbon-Covered and Clean Gold (110) Surfaces. Physical Review Letters, 1983, 51, 1000-1002.	7.8	194
11	Plasmon Length: A Universal Parameter to Describe Size Effects in Gold Nanoparticles. Journal of Physical Chemistry Letters, 2012, 3, 1479-1483.	4.6	191
12	Nanoparticle shape, thermodynamics and kinetics. Journal of Physics Condensed Matter, 2016, 28, 053001.	1.8	186
13	Imaging the Atomic Surface Structures of CeO₂ Nanoparticles. Nano Letters, 2014, 14, 191-196.	9.1	183
14	Wulff Construction for Alloy Nanoparticles. Nano Letters, 2011, 11, 3399-3403.	9.1	160
15	Synthesis-Dependent First-Order Raman Scattering in SrTiO₃Nanocubes at Room Temperature. Chemistry of Materials, 2008, 20, 5628-5635.	6.7	159
16	Propane Oxidation over Pt/SrTiO₃ Nanocuboids. ACS Catalysis, 2011, 1, 629-635.	11.2	153
17	A homologous series of structures on the surface of SrTiO3(110). Nature Materials, 2010, 9, 245-248.	27.5	145
18	Surface Structures of SrTiO3(001):Â A TiO2-rich Reconstruction with a c(4 Ã— 2) Unit Cell. Journal of the American Chemical Society, 2003, 125, 10050-10056.	13.7	134

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19	CoCrMo metal-on-metal hip replacements. Physical Chemistry Chemical Physics, 2013, 15, 746-756.	2.8	124
20	Determination and Refinement of theAg/Si(111)â^'(3Ã—1)Surface Structure. Physical Review Letters, 1998, 80, 1678-1681.	7.8	117
21	Kinetic and Thermodynamic Modified Wulff Constructions for Twinned Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 15859-15870.	3.1	113
22	Oriented Catalytic Platinum Nanoparticles on High Surface Area Strontium Titanate Nanocuboids. Nano Letters, 2011, 11, 993-997.	9.1	109
23	Cyclic Ozone Identified in Magnesium Oxide (111) Surface Reconstructions. Physical Review Letters, 1998, 81, 4891-4894.	7.8	102
24	Adhesion and Atomic Structures of Gold on Ceria Nanostructures: The Role of Surface Structure and Oxidation State of Ceria Supports. Nano Letters, 2015, 15, 5375-5381.	9.1	98
25	Critical thickness for transformation of epitaxially stabilized cubic AlN in superlattices. Applied Physics Letters, 2001, 78, 892-894.	3.3	93
26	New insights into hard phases of CoCrMo metal-on-metal hip replacements. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 12, 39-49.	3.1	93
27	Multiply-twinned particles in silver catalysts. Nature, 1979, 282, 196-198.	27.8	90
28	Atomic Structure of Si(111)-(5Ã—2)-Au from High Resolution Electron Microscopy and Heavy-Atom Holography. Physical Review Letters, 1995, 75, 2172-2175.	7.8	88
29	Low-temperature magnetron sputter-deposition, hardness, and electrical resistivity of amorphous and crystalline alumina thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 2333.	2.1	81
30	Wiener-filter enhancement of noisy HREM images. Ultramicroscopy, 1996, 62, 43-52.	1.9	80
31	Vacant-Site Octahedral Tilings on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>(001), the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo stretchy="false">(</mml:mo><mml:msqrt><mml:mn>13</mml:mn></mml:msqrt><mml:mo>Ã—</mml:mo><mml:msqrt><mml:mn>13 Physical Review Letters, 2011, 106, 176102.	7.8	80
32	Liquid-like tribology of gold studied by in situ TEM. Wear, 2008, 265, 1864-1869.	3.1	77
33	Does Flexoelectricity Drive Triboelectricity?. Physical Review Letters, 2019, 123, 116103.	7.8	77
34	Segregation in bimetallic nanoparticles. Physical Chemistry Chemical Physics, 2015, 17, 27940-27951.	2.8	75
35	Microstructure of cosputter-deposited metal- and oxide-MoS₂ solid lubricant thin films. Journal of Materials Research, 1998, 13, 1022-1032.	2.6	71
36	Structure refinement from precession electron diffraction data. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, 171-188.	0.3	69

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37	Nonequilibrium Solute Capture in Passivating Oxide Films. Physical Review Letters, 2018, 121, 145701.	7.8	67
38	Direct Observation of Elastic and Plastic Deformations at Au(111) Surfaces. Physical Review Letters, 1984, 52, 656-658.	7.8	66
39	Solid oxide cells with zirconia/ceria Bi-Layer electrolytes fabricated by reduced temperature firing. Journal of Materials Chemistry A, 2015, 3, 9955-9964.	10.3	66
40	The sintering behavior of ultrafine alumina particles. Journal of Materials Research, 1992, 7, 1489-1500.	2.6	65
41	Structural fluctuations in small particles. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1988, 57, 605-620.	0.6	58
42	Friction in full view. Applied Physics Letters, 2007, 90, 064101.	3.3	58
43	Synthesis-Dependent Atomic Surface Structures of Oxide Nanoparticles. Physical Review Letters, 2013, 111, 156101.	7.8	58
44	Evidence for sinking of small particles into substrates and implications for heterogeneous catalysis. Nature, 1989, 338, 139-141.	27.8	57
45	TiO2-rich reconstructions of SrTiO3(001): a theoretical study of structural patterns. Surface Science, 2004, 573, 446-456.	1.9	56
46	Atomic-scale structure of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Sr</mml:mi><mml:mi mathvariant="normal">Ti</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mn>001</mml:mn> Physical Review B, 2007, 76, .	3.2	55
47	Water-driven structural evolution of the polar MgO (111) surface: An integrated experimental and theoretical approach. Physical Review B, 2009, 79, .	3.2	52
48	The effect of contact load on CoCrMo wear and the formation and retention of tribofilms. Wear, 2015, 332-333, 643-649.	3.1	51
49	A feasible set approach to the crystallographic phase problem. Acta Crystallographica Section A: Foundations and Advances, 1999, 55, 601-612.	0.3	49
50	Fixed-Point Optimization of Atoms and Density in DFT. Journal of Chemical Theory and Computation, 2013, 9, 2786-2800.	5.3	48
51	Elastic Strain Energy Effects in Faceted Decahedral Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 1485-1494.	3.1	48
52	Surface Reconstruction with a Fractional Hole:(5Ã—5)R26.6Â°LaAlO3(001). Physical Review Letters, 2007, 98, 086102.	7.8	45
53	Robust mixing forab initioquantum mechanical calculations. Physical Review B, 2008, 78, .	3.2	45
54	The Fe3O4 origin of the â€œBiphaseâ€•reconstruction on Î±-Fe2O3(0001). Surface Science, 2009, 603, 2574-2579.	1.9	45

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55	Phase instabilities in small particles. Phase Transitions, 1990, 24-26, 229-258.	1.3	43
56	Direct Methods for Surfaces. Surface Review and Letters, 1998, 05, 1087-1106.	1.1	43
57	Synthesis and characterization of CrN/Mo2N multilayers and phases of Molybdenum nitride. Surface and Coatings Technology, 2007, 202, 1123-1128.	4.8	43
58	A predictive analytical friction model from basic theories of interfaces, contacts and dislocations. Tribology Letters, 2007, 26, 73-84.	2.6	43
59	The (2Ã—2) reconstructions on the SrTiO3 (001) surface: A combined scanning tunneling microscopy and density functional theory study. Surface Science, 2011, 605, L51-L55.	1.9	41
60	Surface determination through atomically resolved secondary-electron imaging. Nature Communications, 2015, 6, 7358.	12.8	41
61	Imaging the Dimers inSi(111)â˜…(7Ã—7). Physical Review Letters, 1996, 77, 4226-4228.	7.8	40
62	Precession electron diffraction 1: multislice simulation. Acta Crystallographica Section A: Foundations and Advances, 2006, 62, 434-443.	0.3	40
63	Direct lattice imaging of small metal particles. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1981, 44, 735-740.	0.6	39
64	A chemical approach to understanding oxide surfaces. Surface Science, 2012, 606, 344-355.	1.9	39
65	In Situ Observations of Early Stage Oxidation of Ni-Cr and Ni-Cr-Mo Alloys. Corrosion, 2018, 74, 939-946.	1.1	39
66	Rapid structure determination of a metal oxide from pseudo-kinematical electron diffraction data. Ultramicroscopy, 2006, 106, 114-122.	1.9	38
67	SrTiO3 Nanocuboids from a Lamellar Microemulsion. Chemistry of Materials, 2013, 25, 378-384.	6.7	38
68	Morphology and CO Oxidation Activity of Pd Nanoparticles on SrTiO₃ Nanopolyhedra. ACS Catalysis, 2018, 8, 4751-4760.	11.2	38
69	Thermodynamic Analysis of Multiply Twinned Particles: Surface Stress Effects. Journal of Physical Chemistry Letters, 2013, 4, 3089-3094.	4.6	37
70	A quantitative analysis of the cone-angle dependence in precession electron diffraction. Ultramicroscopy, 2008, 108, 514-522.	1.9	35
71	Preferred structures in small particles. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1995, 71, 291-310.	0.6	34
72	Transition from Order to Configurational Disorder for Surface Reconstructions on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SrTiO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></</mml:mrow> Physical Review Letters, 2015, 114, 226101.	7.8	34

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73	Stabilizing Single-Atom and Small-Domain Platinum via Combining Organometallic Chemisorption and Atomic Layer Deposition. Organometallics, 2017, 36, 818-828.	2.3	34
74	The small unit cell reconstructions of SrTiO3(111). Surface Science, 2009, 603, 2179-2187.	1.9	33
75	Temperature activated self-lubrication in CrN/Mo2N nanolayer coatings. Surface and Coatings Technology, 2010, 204, 1359-1365.	4.8	32
76	Pauling's rules for oxide surfaces. Surface Science Reports, 2018, 73, 213-232.	7.2	31
77	Formation of BN nanoarches: Possibly the key to cubic boron nitride film growth. Applied Physics Letters, 1998, 72, 314-316.	3.3	29
78	Tribology in Full View. MRS Bulletin, 2008, 33, 1168-1173.	3.5	29
79	All Roads Lead to TiO₂: TiO₂-Rich Surfaces of Barium and Strontium Titanate Prepared by Hydrothermal Synthesis. Chemistry of Materials, 2018, 30, 841-846.	6.7	29
80	Transition from Reconstruction toward Thin Film on the (110) Surface of Strontium Titanate. Nano Letters, 2016, 16, 2407-2412.	9.1	28
81	Are Nanoparticle Corners Round?. Journal of Physical Chemistry C, 2015, 119, 21018-21023.	3.1	27
82	Direct Observation of Large Flexoelectric Bending at the Nanoscale in Lanthanide Scandates. Nano Letters, 2018, 18, 3850-3856.	9.1	27
83	IMAGING SURFACE STRUCTURES BY DIRECT PHASING. Surface Review and Letters, 1997, 04, 1-8.	1.1	26
84	EDM 1.0: Electron direct methods. Ultramicroscopy, 2005, 102, 233-237.	1.9	26
85	Electron precession: A guide for implementation. Review of Scientific Instruments, 2005, 76, 033703.	1.3	26
86	UHV transmission electron microscopy structure determination of the Si(111)-(âˆš3 Ã— âˆš3)R30Â°Au surface. Surface Science, 1995, 342, 233-249.	1.9	25
87	Crystallographic direct methods for surfaces. Journal of Physics Condensed Matter, 2001, 13, 10677-10687.	1.8	25
88	Force calculation for orbital-dependent potentials with FP-(L)APW+lo basis sets. Computer Physics Communications, 2008, 179, 784-790.	7.5	25
89	Au 6 Ã— 6 on Si(111): Evidence for a 2D Pseudoglass. Surface Review and Letters, 1998, 05, 459-464.	1.1	23
90	Time, temperature, and oxygen partial pressure-dependent surface reconstructions on SrTiO3(111): A systematic study of oxygen-rich conditions. Surface Science, 2008, 602, 3018-3025.	1.9	23

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91	c(4â€‰Ã—â€‰2) and related structural units on the SrTiO3(001) surface: Scanning tunneling microscopy, density functional theory, and atomic structure. Journal of Chemical Physics, 2012, 136, 214701.	3.0	23
92	Direct Synthesis of Low-Coordinate Pd Catalysts Supported on SiO₂ via Surface Organometallic Chemistry. ACS Catalysis, 2016, 6, 8380-8388.	11.2	21
93	Epitaxial Stabilization of Face Selective Catalysts. Topics in Catalysis, 2013, 56, 1829-1834.	2.8	20
94	Diffusion during electron-beam-induced reduction of tungsten trioxide. Philosophical Magazine Letters, 1989, 60, 31-36.	1.2	19
95	Direct Observation of Tribochemically Assisted Wear on Diamond-Like Carbon Thin Films. Tribology Letters, 2013, 49, 351-356.	2.6	19
96	Graphitic Carbon Films Across Systems. Tribology Letters, 2016, 63, 1.	2.6	19
97	Prospects for aberration corrected electron precession. Ultramicroscopy, 2007, 107, 534-542.	1.9	18
98	Structure and composition of linear TiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>nanostructures on SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>(001). Physical Review B, 2012, 86, .	3.2	18
99	Wulff shape of strontium titanate nanocuboids. Surface Science, 2015, 632, L22-L25.	1.9	18
100	How heteroepitaxy occurs on strontium titanate. Science Advances, 2019, 5, eaav0764.	10.3	18
101	Surface crystallography via electron microscopy. Ultramicroscopy, 2004, 98, 151-157.	1.9	17
102	Comment on â€œfriction between incommensurate crystalsâ€• Philosophical Magazine Letters, 2007, 87, 527-532.	1.2	17
103	Complex surface structure of (110) terminated strontium titanate nanododecahedra. Nanoscale, 2016, 8, 16606-16611.	5.6	17
104	Synthesis of Gadolinium Scandate from a Hydroxide Hydrogel. Inorganic Chemistry, 2018, 57, 4104-4108.	4.0	17
105	Replication of SMSI via ALD: TiO2 Overcoats Increase Pt-Catalyzed Acrolein Hydrogenation Selectivity. Catalysis Letters, 2018, 148, 2223-2232.	2.6	17
106	When Flexoelectricity Drives Triboelectricity. Nano Letters, 2022, 22, 3939-3945.	9.1	17
107	Sputterâ€induced grain boundary junctions in YBa2Cu3O7â^'x thin films on MgO. Journal of Applied Physics, 1995, 77, 2591-2594.	2.5	16
108	Characteristics of precession electron diffraction intensities from dynamical simulations. Zeitschrift FÃ¼r Kristallographie, 2010, 225, 47-55.	1.1	16

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109	Strain-Induced Segregation in Bimetallic Multiply Twinned Particles. Journal of Physical Chemistry Letters, 2015, 6, 1930-1934.	4.6	16
110	Layer-by-Layer Epitaxial Growth of Defect-Engineered Strontium Cobaltites. ACS Applied Materials & Interfaces, 2018, 10, 5949-5958.	8.0	16
111	Band Bending and Ratcheting Explain Triboelectricity in a Flexoelectric Contact Diode. Nano Letters, 2022, 22, 3914-3921.	9.1	16
112	Experimental surface charge density of theSi(100)â˜2Ã—1Hsurface. Physical Review B, 2006, 74, .	3.2	15
113	New Insights on the Role of Chloride During the Onset of Local Corrosion: TEM, APT, Surface Energy, and Morphological Instability. Corrosion, 2019, 75, 616-627.	1.1	15
114	The Vacancyâ€Induced Electronic Structure of the SrTiO 3â˜Î´ Surface. Advanced Electronic Materials, 2019, 5, 1800460.	5.1	15
115	Statistical dynamical direct methods. I. The effective kinematical approximation. Acta Crystallographica Section A: Foundations and Advances, 2000, 56, 458-469.	0.3	14
116	Diffraction refinement of localized antibonding at the Si(111)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>7</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>7</mml:mn></mml:mrow></mml:math>surfa Physical Review B, 2009, 79, .	3.2	14
117	Electron-induced Ti-rich surface segregation on SrTiO3 nanoparticles. Micron, 2015, 68, 152-157.	2.2	14
118	Morphology and oxidation state of ALD-grown Pd nanoparticles on TiO2- and SrO-terminated SrTiO3 nanocuboids. Surface Science, 2016, 648, 291-298.	1.9	14
119	Kinetic Growth Regimes of Hydrothermally Synthesized Potassium Tantalate Nanoparticles. Nano Letters, 2018, 18, 5186-5191.	9.1	14
120	A Dislocation-Based Analytical Model for the Nanoscale Processes of Shear and Plowing Friction. Tribology Letters, 2010, 39, 163-167.	2.6	13
121	On the alignment for precession electron diffraction. Ultramicroscopy, 2012, 117, 1-6.	1.9	13
122	Grain Boundary Assisted Crevice Corrosion in CoCrMo Alloys. Corrosion, 2016, 72, 1445-1461.	1.1	13
123	Nucleation and growth process of atomic layer deposition platinum nanoparticles on strontium titanate nanocuboids. Nanotechnology, 2017, 28, 185704.	2.6	13
124	Competitive Chloride Chemisorption Disrupts Hydrogen Bonding Networks: DFT, Crystallography, Thermodynamics, and Morphological Consequences. Corrosion, 2018, 74, 295-311.	1.1	13
125	Atomic Resolution Transmission Electron Microscopy of Surfaces. Journal of Materials Research, 2005, 20, 1619-1627.	2.6	12
126	Controllable ALD synthesis of platinum nanoparticles by tuning different synthesis parameters. Journal Physics D: Applied Physics, 2017, 50, 415301.	2.8	12

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127	Combining the Physics of Metal/Oxide Heterostructure, Interface Dipole, Band Bending, Crystallography, and Surface State to Understand Heterogeneity Contrast in Oxidation and Corrosion. Corrosion, 2019, 75, 152-166.	1.1	12
128	Electronic structure of lanthanide scandates. Physical Review Materials, 2018, 2, .	2.4	12
129	Direct Imaging of Atomic Rearrangements on Extended Gold Surfaces. Materials Research Society Symposia Proceedings, 1984, 41, 129.	0.1	11
130	Epitaxial decagonal thin films on crystalline substrates. Philosophical Magazine Letters, 2003, 83, 47-55.	1.2	11
131	Sufficient Conditions for Direct Methods with Swift Electrons. Microscopy and Microanalysis, 2003, 9, 399-410.	0.4	11
132	Ab Initio Predictions of Double-Layer TiO₂-Terminated SrTiO₃(001) Surface Reconstructions. Journal of Physical Chemistry C, 2018, 122, 21991-21997.	3.1	11
133	Defects on Strontium Titanate. Springer Series in Surface Sciences, 2015, , 327-349.	0.3	11
134	Statistical dynamical direct methods. II. The three-phase structure invariant. Acta Crystallographica Section A: Foundations and Advances, 2001, 57, 231-239.	0.3	10
135	Enhancing structure relaxations for first-principles codes: An approximate Hessian approach. Computational Materials Science, 2007, 40, 345-353.	3.0	10
136	Influence of the Metal Oxide Substrate Structure on Vanadium Oxide Monomer Formation. Topics in Catalysis, 2014, 57, 177-187.	2.8	10
137	In situ observations of graphitic staples in crumpled graphene. Carbon, 2018, 132, 760-765.	10.3	10
138	Direct Visualization of Independent Ta Centers Supported on Two-Dimensional TiO₂ Nanosheets. Nano Letters, 2019, 19, 8103-8108.	9.1	10
139	The role of surfaces in flexoelectricity. Journal of Applied Physics, 2021, 129, .	2.5	10
140	Predictive Mixing for Density Functional Theory (and Other Fixed-Point Problems). Journal of Chemical Theory and Computation, 2021, 17, 5715-5732.	5.3	10
141	Tribochemical Reactions in Metal-on-Metal Hip Joints Influence Wear and Corrosion. , 2013, , 292-309.		10
142	Equilibrium shape of a buoyant particle. Journal of Materials Research, 1990, 5, 1496-1501.	2.6	9
143	Transformations in quasimelting. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1993, 26, 70-72.	1.0	9
144	YBa2Cu3O7â˜Î´ on MgO films grown by pulsed organometallic beam epitaxy and a grain boundary junction application. Journal of Materials Research, 1995, 10, 2700-2707.	2.6	9

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145	Bi-epitaxial grain boundaries in YBa₂Cu₃O_{7â^'x} thin films prepared by pulsed laser deposition and pulsed organometallic beam epitaxy: Direct comparison of transport properties and grain boundary structure. Journal of Materials Research, 1996, 11, 2429-2439.	2.6	9
146	Spatial variation of the current in grain boundary Josephson junctions. Journal of Applied Physics, 2000, 87, 2454-2459.	2.5	9
147	Direct Observation of Layer-by-Layer Wear. Tribology Letters, 2015, 59, 1.	2.6	9
148	Nanoscale Abrasive Wear of CoCrMo in In Situ TEM Sliding. Tribology Letters, 2015, 57, 1.	2.6	9
149	Soft Interface Fracture Transfer in Nanoscale MoS2. Tribology Letters, 2016, 64, 1.	2.6	9
150	Computer simulations of interactions between ultrafine alumina particles produced by an arc discharge. Journal of Materials Research, 1997, 12, 235-243.	2.6	8
151	STRUCTURE DETERMINATION OF THE Ge(111)-(3Ã—1)Ag SURFACE RECONSTRUCTION. Surface Review and Letters, 1999, 06, 1061-1065.	1.1	8
152	Fitting valence charge densities at a crystal surface. Acta Crystallographica Section A: Foundations and Advances, 2006, 62, 309-315.	0.3	8
153	Monolayer Transfer Layers During Sliding at the Atomic Scale. Tribology Letters, 2015, 59, 1.	2.6	8
154	Single-layer TiOx reconstructions on SrTiO3 (111): (âˆš7â€¯Ã—â€¯âˆš7)R19.1Â°, (âˆš13â€¯Ã—â€¯âˆš13)R13.9Â°, and related structures. Surface Science, 2018, 675, 36-41.	1.9	8
155	Crystallographic anisotropy of nonequilibrium solute capture. Acta Materialia, 2020, 198, 223-229.	7.9	8
156	Surface roughening by electron beam heating. Applied Physics Letters, 1997, 71, 2301-2303.	3.3	7
157	Impurity stabilized near-surface phase on ion bombarded Î±-Fe2O3(0001). Surface Science, 2005, 586, 38-44.	1.9	7
158	Controlled Two-Step Formation of Faceted Perovskite Rare-Earth Scandate Nanoparticles. Crystals, 2019, 9, 218.	2.2	7
159	Modified Winterbottom Construction Including Boundaries. Journal of Physical Chemistry C, 2020, 124, 28038-28043.	3.1	7
160	Optical Floating Zone Growth of Single Crystal Î±-Fe2O3from a CaFe4O7-Based Solvent. Crystal Growth and Design, 2004, 4, 749-753.	3.0	6
161	Modeling of Thermal-Assisted Dislocation Friction. Tribology Letters, 2010, 37, 283-288.	2.6	6
162	Compositional Inhomogeneity and Corner Enrichment of Pt in Pt/Pd Bimetallic Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 21069-21075.	3.1	6

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163	Development of a hybrid molecular beam epitaxy deposition system for in situ surface x-ray studies. Review of Scientific Instruments, 2018, 89, 033905.	1.3	6
164	Structure and Epitaxy of Silver/Gold Microclusters on MgO. Materials Research Society Symposia Proceedings, 1987, 111, 213.	0.1	5
165	Sintering Behavior of Ultrafine Ceramic Particles. Materials Research Society Symposia Proceedings, 1992, 286, 3.	0.1	5
166	Surface heterogeneity in KTaO3 (001). Surface Science, 2017, 657, 15-19.	1.9	5
167	Charging ain't all bad: Complex physics in DyScO3. Ultramicroscopy, 2019, 203, 119-124.	1.9	5
168	Experimental determination of flexoelectric coefficients in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><mr , and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>YAlO</mml:mi><mml:mn>3</mml:mn></mml:msub></mr Physical Review Materials, 2022, 6, .	2.4	5
169	Integrated multilayer sputterâ€induced 45Â° YBa2Cu3O7â^'x grain boundary junctions. Applied Physics Letters, 1995, 67, 1013-1015.	3.3	4
170	Operational Inhomogeneities in La_{0.9}Sr_{0.1}Ga_{0.8}Mg_{0.2}O_{3â€“Î´} Electrolytes and La_{0.8}Sr_{0.2}Cr_{0.82}Ru_{0.18}O_{3â€“Î´}â€“Ce_{0.9}Gd<sub>0.1</s Composite Anodes for Solid Oxide Fuel Cells. Fuel Cells, 2011, 11, 635-641.	2.4	4
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