

Laurence D Marks

List of Publications by Year in descending order

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233
papers

10,932
citations

43973

48
h-index

32761

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. <i>Journal of Chemical Physics</i> , 2020, 152, 074101.	1.2	1,185
2	Identification of active sites in CO oxidation and water-gas shift over supported Pt catalysts. <i>Science</i> , 2015, 350, 189-192.	6.0	948
3	Experimental studies of small particle structures. <i>Reports on Progress in Physics</i> , 1994, 57, 603-649.	8.1	838
4	Surface structure and energetics of multiply twinned particles. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1984, 49, 81-93.	0.8	354
5	The structure and chemistry of the TiO ₂ -rich surface of SrTiO ₃ (001). <i>Nature</i> , 2002, 419, 55-58.	13.7	342
6	Direct surface imaging in small metal particles. <i>Nature</i> , 1983, 303, 316-317.	13.7	250
7	Elastic strains and the energy balance for multiply twinned particles. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1984, 49, 95-109.	0.8	249
8	Correlated Structure and Optical Property Studies of Plasmonic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9291-9305.	1.5	217
9	Graphitic Tribological Layers in Metal-on-Metal Hip Replacements. <i>Science</i> , 2011, 334, 1687-1690.	6.0	199
10	Direct Imaging of Carbon-Covered and Clean Gold (110) Surfaces. <i>Physical Review Letters</i> , 1983, 51, 1000-1002.	2.9	194
11	Plasmon Length: A Universal Parameter to Describe Size Effects in Gold Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1479-1483.	2.1	191
12	Nanoparticle shape, thermodynamics and kinetics. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 053001.	0.7	186
13	Imaging the Atomic Surface Structures of CeO ₂ Nanoparticles. <i>Nano Letters</i> , 2014, 14, 191-196.	4.5	183
14	Wulff Construction for Alloy Nanoparticles. <i>Nano Letters</i> , 2011, 11, 3399-3403.	4.5	160
15	Synthesis-Dependent First-Order Raman Scattering in SrTiO ₃ Nanocubes at Room Temperature. <i>Chemistry of Materials</i> , 2008, 20, 5628-5635.	3.2	159
16	Propane Oxidation over Pt/SrTiO ₃ Nanocuboids. <i>ACS Catalysis</i> , 2011, 1, 629-635.	5.5	153
17	A homologous series of structures on the surface of SrTiO ₃ (110). <i>Nature Materials</i> , 2010, 9, 245-248.	13.3	145
18	Surface Structures of SrTiO ₃ (001): A TiO ₂ -rich Reconstruction with a c(4 Å × 2) Unit Cell. <i>Journal of the American Chemical Society</i> , 2003, 125, 10050-10056.	6.6	134

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19	CoCrMo metal-on-metal hip replacements. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 746-756.	1.3	124
20	Determination and Refinement of the Ag/Si(111)-(3 \times 3) Surface Structure. <i>Physical Review Letters</i> , 1998, 80, 1678-1681.	2.9	117
21	Kinetic and Thermodynamic Modified Wulff Constructions for Twinned Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15859-15870.	1.5	113
22	Oriented Catalytic Platinum Nanoparticles on High Surface Area Strontium Titanate Nanocuboids. <i>Nano Letters</i> , 2011, 11, 993-997.	4.5	109
23	Cyclic Ozone Identified in Magnesium Oxide (111) Surface Reconstructions. <i>Physical Review Letters</i> , 1998, 81, 4891-4894.	2.9	102
24	Adhesion and Atomic Structures of Gold on Ceria Nanostructures: The Role of Surface Structure and Oxidation State of Ceria Supports. <i>Nano Letters</i> , 2015, 15, 5375-5381.	4.5	98
25	Critical thickness for transformation of epitaxially stabilized cubic AlN in superlattices. <i>Applied Physics Letters</i> , 2001, 78, 892-894.	1.5	93
26	New insights into hard phases of CoCrMo metal-on-metal hip replacements. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 12, 39-49.	1.5	93
27	Multiply-twinned particles in silver catalysts. <i>Nature</i> , 1979, 282, 196-198.	13.7	90
28	Atomic Structure of Si(111)-(5 \times 5)-Au from High Resolution Electron Microscopy and Heavy-Atom Holography. <i>Physical Review Letters</i> , 1995, 75, 2172-2175.	2.9	88
29	Low-temperature magnetron sputter-deposition, hardness, and electrical resistivity of amorphous and crystalline alumina thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000, 18, 2333.	0.9	81
30	Wiener-filter enhancement of noisy HREM images. <i>Ultramicroscopy</i> , 1996, 62, 43-52.	0.8	80
31	Vacant-Site Octahedral Tilings on SrTiO ₃ (001), the $\sqrt{13}\times\sqrt{13}$ Surface. <i>Physical Review Letters</i> , 2011, 106, 176102.	2.9	80
32	Liquid-like tribology of gold studied by in situ TEM. <i>Wear</i> , 2008, 265, 1864-1869.	1.5	77
33	Does Flexoelectricity Drive Triboelectricity?. <i>Physical Review Letters</i> , 2019, 123, 116103.	2.9	77
34	Segregation in bimetallic nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27940-27951.	1.3	75
35	Microstructure of cosputter-deposited metal- and oxide-MoS ₂ solid lubricant thin films. <i>Journal of Materials Research</i> , 1998, 13, 1022-1032.	1.2	71
36	Structure refinement from precession electron diffraction data. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, 171-188.	0.3	69

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37	Nonequilibrium Solute Capture in Passivating Oxide Films. <i>Physical Review Letters</i> , 2018, 121, 145701.	2.9	67
38	Direct Observation of Elastic and Plastic Deformations at Au(111) Surfaces. <i>Physical Review Letters</i> , 1984, 52, 656-658.	2.9	66
39	Solid oxide cells with zirconia/ceria Bi-Layer electrolytes fabricated by reduced temperature firing. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9955-9964.	5.2	66
40	The sintering behavior of ultrafine alumina particles. <i>Journal of Materials Research</i> , 1992, 7, 1489-1500.	1.2	65
41	Structural fluctuations in small particles. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1988, 57, 605-620.	0.8	58
42	Friction in full view. <i>Applied Physics Letters</i> , 2007, 90, 064101.	1.5	58
43	Synthesis-Dependent Atomic Surface Structures of Oxide Nanoparticles. <i>Physical Review Letters</i> , 2013, 111, 156101.	2.9	58
44	Evidence for sinking of small particles into substrates and implications for heterogeneous catalysis. <i>Nature</i> , 1989, 338, 139-141.	13.7	57
45	TiO ₂ -rich reconstructions of SrTiO ₃ (001): a theoretical study of structural patterns. <i>Surface Science</i> , 2004, 573, 446-456.	0.8	56
46	Atomic-scale structure of the $\text{SrTi}_3\text{O}_{10}$ surface. <i>Physical Review B</i> , 2007, 76, .	1.1	55
47	Water-driven structural evolution of the polar MgO (111) surface: An integrated experimental and theoretical approach. <i>Physical Review B</i> , 2009, 79, .	1.1	52
48	The effect of contact load on CoCrMo wear and the formation and retention of tribofilms. <i>Wear</i> , 2015, 332-333, 643-649.	1.5	51
49	A feasible set approach to the crystallographic phase problem. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1999, 55, 601-612.	0.3	49
50	Fixed-Point Optimization of Atoms and Density in DFT. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 2786-2800.	2.3	48
51	Elastic Strain Energy Effects in Faceted Decahedral Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1485-1494.	1.5	48
52	Surface Reconstruction with a Fractional Hole: $(5\sqrt{5}-5)R_{26.6^\circ}\text{LaAlO}_3(001)$. <i>Physical Review Letters</i> , 2007, 98, 086102.	2.9	45
53	Robust mixing for <i>ab initio</i> quantum mechanical calculations. <i>Physical Review B</i> , 2008, 78, .	1.1	45
54	The Fe ₃ O ₄ origin of the α - β phase reconstruction on $\sqrt{2}\times\sqrt{2}$ -Fe ₂ O ₃ (0001). <i>Surface Science</i> , 2009, 603, 2574-2579.	0.8	45

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55	Phase instabilities in small particles. <i>Phase Transitions</i> , 1990, 24-26, 229-258.	0.6	43
56	Direct Methods for Surfaces. <i>Surface Review and Letters</i> , 1998, 05, 1087-1106.	0.5	43
57	Synthesis and characterization of CrN/Mo ₂ N multilayers and phases of Molybdenum nitride. <i>Surface and Coatings Technology</i> , 2007, 202, 1123-1128.	2.2	43
58	A predictive analytical friction model from basic theories of interfaces, contacts and dislocations. <i>Tribology Letters</i> , 2007, 26, 73-84.	1.2	43
59	The (2 $\sqrt{2}$ -2) reconstructions on the SrTiO ₃ (001) surface: A combined scanning tunneling microscopy and density functional theory study. <i>Surface Science</i> , 2011, 605, L51-L55.	0.8	41
60	Surface determination through atomically resolved secondary-electron imaging. <i>Nature Communications</i> , 2015, 6, 7358.	5.8	41
61	Imaging the Dimers in Si(111) $\sqrt{7}\times\sqrt{7}$. <i>Physical Review Letters</i> , 1996, 77, 4226-4228.	2.9	40
62	Precession electron diffraction 1: multislice simulation. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2006, 62, 434-443.	0.3	40
63	Direct lattice imaging of small metal particles. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1981, 44, 735-740.	0.8	39
64	A chemical approach to understanding oxide surfaces. <i>Surface Science</i> , 2012, 606, 344-355.	0.8	39
65	In Situ Observations of Early Stage Oxidation of Ni-Cr and Ni-Cr-Mo Alloys. <i>Corrosion</i> , 2018, 74, 939-946.	0.5	39
66	Rapid structure determination of a metal oxide from pseudo-kinematical electron diffraction data. <i>Ultramicroscopy</i> , 2006, 106, 114-122.	0.8	38
67	SrTiO ₃ Nanocuboids from a Lamellar Microemulsion. <i>Chemistry of Materials</i> , 2013, 25, 378-384.	3.2	38
68	Morphology and CO Oxidation Activity of Pd Nanoparticles on SrTiO ₃ Nanopolyhedra. <i>ACS Catalysis</i> , 2018, 8, 4751-4760.	5.5	38
69	Thermodynamic Analysis of Multiply Twinned Particles: Surface Stress Effects. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3089-3094.	2.1	37
70	A quantitative analysis of the cone-angle dependence in precession electron diffraction. <i>Ultramicroscopy</i> , 2008, 108, 514-522.	0.8	35
71	Preferred structures in small particles. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995, 71, 291-310.	0.6	34
72	Transition from Order to Configurational Disorder for Surface Reconstructions on SrTiO_3 . <i>Physical Review Letters</i> , 2015, 114, 226101.	2.9	34

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73	Stabilizing Single-Atom and Small-Domain Platinum via Combining Organometallic Chemisorption and Atomic Layer Deposition. <i>Organometallics</i> , 2017, 36, 818-828.	1.1	34
74	The small unit cell reconstructions of SrTiO ₃ (111). <i>Surface Science</i> , 2009, 603, 2179-2187.	0.8	33
75	Temperature activated self-lubrication in CrN/Mo ₂ N nanolayer coatings. <i>Surface and Coatings Technology</i> , 2010, 204, 1359-1365.	2.2	32
76	Pauling's rules for oxide surfaces. <i>Surface Science Reports</i> , 2018, 73, 213-232.	3.8	31
77	Formation of BN nanoarches: Possibly the key to cubic boron nitride film growth. <i>Applied Physics Letters</i> , 1998, 72, 314-316.	1.5	29
78	Tribology in Full View. <i>MRS Bulletin</i> , 2008, 33, 1168-1173.	1.7	29
79	All Roads Lead to TiO ₂ : TiO ₂ -Rich Surfaces of Barium and Strontium Titanate Prepared by Hydrothermal Synthesis. <i>Chemistry of Materials</i> , 2018, 30, 841-846.	3.2	29
80	Transition from Reconstruction toward Thin Film on the (110) Surface of Strontium Titanate. <i>Nano Letters</i> , 2016, 16, 2407-2412.	4.5	28
81	Are Nanoparticle Corners Round?. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21018-21023.	1.5	27
82	Direct Observation of Large Flexoelectric Bending at the Nanoscale in Lanthanide Scandates. <i>Nano Letters</i> , 2018, 18, 3850-3856.	4.5	27
83	IMAGING SURFACE STRUCTURES BY DIRECT PHASING. <i>Surface Review and Letters</i> , 1997, 04, 1-8.	0.5	26
84	EDM 1.0: Electron direct methods. <i>Ultramicroscopy</i> , 2005, 102, 233-237.	0.8	26
85	Electron precession: A guide for implementation. <i>Review of Scientific Instruments</i> , 2005, 76, 033703.	0.6	26
86	UHV transmission electron microscopy structure determination of the Si(111)-(√3 × √3)R30°Au surface. <i>Surface Science</i> , 1995, 342, 233-249.	0.8	25
87	Crystallographic direct methods for surfaces. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 10677-10687.	0.7	25
88	Force calculation for orbital-dependent potentials with FP-(L)APW+lo basis sets. <i>Computer Physics Communications</i> , 2008, 179, 784-790.	3.0	25
89	Au 6 × 6 on Si(111): Evidence for a 2D Pseudoglass. <i>Surface Review and Letters</i> , 1998, 05, 459-464.	0.5	23
90	Time, temperature, and oxygen partial pressure-dependent surface reconstructions on SrTiO ₃ (111): A systematic study of oxygen-rich conditions. <i>Surface Science</i> , 2008, 602, 3018-3025.	0.8	23

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91	c(4 $\sqrt{2}$) and related structural units on the SrTiO ₃ (001) surface: Scanning tunneling microscopy, density functional theory, and atomic structure. <i>Journal of Chemical Physics</i> , 2012, 136, 214701.	1.2	23
92	Direct Synthesis of Low-Coordinate Pd Catalysts Supported on SiO ₂ via Surface Organometallic Chemistry. <i>ACS Catalysis</i> , 2016, 6, 8380-8388.	5.5	21
93	Epitaxial Stabilization of Face Selective Catalysts. <i>Topics in Catalysis</i> , 2013, 56, 1829-1834.	1.3	20
94	Diffusion during electron-beam-induced reduction of tungsten trioxide. <i>Philosophical Magazine Letters</i> , 1989, 60, 31-36.	0.5	19
95	Direct Observation of Tribochemically Assisted Wear on Diamond-Like Carbon Thin Films. <i>Tribology Letters</i> , 2013, 49, 351-356.	1.2	19
96	Graphitic Carbon Films Across Systems. <i>Tribology Letters</i> , 2016, 63, 1.	1.2	19
97	Prospects for aberration corrected electron precession. <i>Ultramicroscopy</i> , 2007, 107, 534-542.	0.8	18
98	Structure and composition of linear TiO _x nanostructures on SrTiO ₃ (001). <i>Physical Review B</i> , 2012, 86, .	1.1	18
99	Wulff shape of strontium titanate nanocuboids. <i>Surface Science</i> , 2015, 632, L22-L25.	0.8	18
100	How heteroepitaxy occurs on strontium titanate. <i>Science Advances</i> , 2019, 5, eaav0764.	4.7	18
101	Surface crystallography via electron microscopy. <i>Ultramicroscopy</i> , 2004, 98, 151-157.	0.8	17
102	Comment on "Friction between incommensurate crystals". <i>Philosophical Magazine Letters</i> , 2007, 87, 527-532.	0.5	17
103	Complex surface structure of (110) terminated strontium titanate nanododecahedra. <i>Nanoscale</i> , 2016, 8, 16606-16611.	2.8	17
104	Synthesis of Gadolinium Scandate from a Hydroxide Hydrogel. <i>Inorganic Chemistry</i> , 2018, 57, 4104-4108.	1.9	17
105	Replication of SMSI via ALD: TiO ₂ Overcoats Increase Pt-Catalyzed Acrolein Hydrogenation Selectivity. <i>Catalysis Letters</i> , 2018, 148, 2223-2232.	1.4	17
106	When Flexoelectricity Drives Triboelectricity. <i>Nano Letters</i> , 2022, 22, 3939-3945.	4.5	17
107	Sputter-induced grain boundary junctions in YBa ₂ Cu ₃ O _{7-x} thin films on MgO. <i>Journal of Applied Physics</i> , 1995, 77, 2591-2594.	1.1	16
108	Characteristics of precession electron diffraction intensities from dynamical simulations. <i>Zeitschrift für Kristallographie</i> , 2010, 225, 47-55.	1.1	16

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109	Strain-Induced Segregation in Bimetallic Multiply Twinned Particles. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1930-1934.	2.1	16
110	Layer-by-Layer Epitaxial Growth of Defect-Engineered Strontium Cobaltites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5949-5958.	4.0	16
111	Band Bending and Ratcheting Explain Triboelectricity in a Flexoelectric Contact Diode. <i>Nano Letters</i> , 2022, 22, 3914-3921.	4.5	16
112	Experimental surface charge density of the Si(100) 2×1 surface. <i>Physical Review B</i> , 2006, 74, .	1.1	15
113	New Insights on the Role of Chloride During the Onset of Local Corrosion: TEM, APT, Surface Energy, and Morphological Instability. <i>Corrosion</i> , 2019, 75, 616-627.	0.5	15
114	The Vacancy-Induced Electronic Structure of the SrTiO ₃ Surface. <i>Advanced Electronic Materials</i> , 2019, 5, 1800460.	2.6	15
115	Statistical dynamical direct methods. I. The effective kinematical approximation. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2000, 56, 458-469.	0.3	14
116	Diffraction refinement of localized antibonding at the Si(111) surface. <i>Physical Review B</i> , 2009, 79, .	1.1	14
117	Electron-induced Ti-rich surface segregation on SrTiO ₃ nanoparticles. <i>Micron</i> , 2015, 68, 152-157.	1.1	14
118	Morphology and oxidation state of ALD-grown Pd nanoparticles on TiO ₂ - and SrO-terminated SrTiO ₃ nanocuboids. <i>Surface Science</i> , 2016, 648, 291-298.	0.8	14
119	Kinetic Growth Regimes of Hydrothermally Synthesized Potassium Tantalate Nanoparticles. <i>Nano Letters</i> , 2018, 18, 5186-5191.	4.5	14
120	A Dislocation-Based Analytical Model for the Nanoscale Processes of Shear and Plowing Friction. <i>Tribology Letters</i> , 2010, 39, 163-167.	1.2	13
121	On the alignment for precession electron diffraction. <i>Ultramicroscopy</i> , 2012, 117, 1-6.	0.8	13
122	Grain Boundary Assisted Crevice Corrosion in CoCrMo Alloys. <i>Corrosion</i> , 2016, 72, 1445-1461.	0.5	13
123	Nucleation and growth process of atomic layer deposition platinum nanoparticles on strontium titanate nanocuboids. <i>Nanotechnology</i> , 2017, 28, 185704.	1.3	13
124	Competitive Chloride Chemisorption Disrupts Hydrogen Bonding Networks: DFT, Crystallography, Thermodynamics, and Morphological Consequences. <i>Corrosion</i> , 2018, 74, 295-311.	0.5	13
125	Atomic Resolution Transmission Electron Microscopy of Surfaces. <i>Journal of Materials Research</i> , 2005, 20, 1619-1627.	1.2	12
126	Controllable ALD synthesis of platinum nanoparticles by tuning different synthesis parameters. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 415301.	1.3	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. <i>Corrosion</i> , 2019, 75, 152-166.	0.5	12
128	Electronic structure of lanthanide scandates. <i>Physical Review Materials</i> , 2018, 2, .	0.9	12
129	Direct Imaging of Atomic Rearrangements on Extended Gold Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 1984, 41, 129.	0.1	11
130	Epitaxial decagonal thin films on crystalline substrates. <i>Philosophical Magazine Letters</i> , 2003, 83, 47-55.	0.5	11
131	Sufficient Conditions for Direct Methods with Swift Electrons. <i>Microscopy and Microanalysis</i> , 2003, 9, 399-410.	0.2	11
132	Ab Initio Predictions of Double-Layer TiO ₂ -Terminated SrTiO ₃ (001) Surface Reconstructions. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21991-21997.	1.5	11
133	Defects on Strontium Titanate. <i>Springer Series in Surface Sciences</i> , 2015, , 327-349.	0.3	11
134	Statistical dynamical direct methods. II. The three-phase structure invariant. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2001, 57, 231-239.	0.3	10
135	Enhancing structure relaxations for first-principles codes: An approximate Hessian approach. <i>Computational Materials Science</i> , 2007, 40, 345-353.	1.4	10
136	Influence of the Metal Oxide Substrate Structure on Vanadium Oxide Monomer Formation. <i>Topics in Catalysis</i> , 2014, 57, 177-187.	1.3	10
137	In situ observations of graphitic staples in crumpled graphene. <i>Carbon</i> , 2018, 132, 760-765.	5.4	10
138	Direct Visualization of Independent Ta Centers Supported on Two-Dimensional TiO ₂ Nanosheets. <i>Nano Letters</i> , 2019, 19, 8103-8108.	4.5	10
139	The role of surfaces in flexoelectricity. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	10
140	Predictive Mixing for Density Functional Theory (and Other Fixed-Point Problems). <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 5715-5732.	2.3	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. <i>Journal of Materials Research</i> , 1990, 5, 1496-1501.	1.2	9
143	Transformations in quasimelting. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993, 26, 70-72.	1.0	9
144	YBa ₂ Cu ₃ O _{7-δ} on MgO films grown by pulsed organometallic beam epitaxy and a grain boundary junction application. <i>Journal of Materials Research</i> , 1995, 10, 2700-2707.	1.2	9

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145	Bi-epitaxial grain boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films prepared by pulsed laser deposition and pulsed organometallic beam epitaxy: Direct comparison of transport properties and grain boundary structure. <i>Journal of Materials Research</i> , 1996, 11, 2429-2439.	1.2	9
146	Spatial variation of the current in grain boundary Josephson junctions. <i>Journal of Applied Physics</i> , 2000, 87, 2454-2459.	1.1	9
147	Direct Observation of Layer-by-Layer Wear. <i>Tribology Letters</i> , 2015, 59, 1.	1.2	9
148	Nanoscale Abrasive Wear of CoCrMo in In Situ TEM Sliding. <i>Tribology Letters</i> , 2015, 57, 1.	1.2	9
149	Soft Interface Fracture Transfer in Nanoscale MoS ₂ . <i>Tribology Letters</i> , 2016, 64, 1.	1.2	9
150	Computer simulations of interactions between ultrafine alumina particles produced by an arc discharge. <i>Journal of Materials Research</i> , 1997, 12, 235-243.	1.2	8
151	STRUCTURE DETERMINATION OF THE $\text{Ge}(111)-(3\sqrt{3}\times\sqrt{3})1$ Ag SURFACE RECONSTRUCTION. <i>Surface Review and Letters</i> , 1999, 06, 1061-1065.	0.5	8
152	Fitting valence charge densities at a crystal surface. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2006, 62, 309-315.	0.3	8
153	Monolayer Transfer Layers During Sliding at the Atomic Scale. <i>Tribology Letters</i> , 2015, 59, 1.	1.2	8
154	Single-layer TiO _x reconstructions on SrTiO ₃ (111): $(\sqrt{7}\times\sqrt{7})R19.1^\circ$, $(\sqrt{13}\times\sqrt{13})R13.9^\circ$, and related structures. <i>Surface Science</i> , 2018, 675, 36-41.	0.8	8
155	Crystallographic anisotropy of nonequilibrium solute capture. <i>Acta Materialia</i> , 2020, 198, 223-229.	3.8	8
156	Surface roughening by electron beam heating. <i>Applied Physics Letters</i> , 1997, 71, 2301-2303.	1.5	7
157	Impurity stabilized near-surface phase on ion bombarded $\hat{1}\pm\text{-Fe}_2\text{O}_3(0001)$. <i>Surface Science</i> , 2005, 586, 38-44.	0.8	7
158	Controlled Two-Step Formation of Faceted Perovskite Rare-Earth Scandate Nanoparticles. <i>Crystals</i> , 2019, 9, 218.	1.0	7
159	Modified Winterbottom Construction Including Boundaries. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28038-28043.	1.5	7
160	Optical Floating Zone Growth of Single Crystal $\hat{1}\pm\text{-Fe}_2\text{O}_3$ from a CaFe ₄ O ₇ -Based Solvent. <i>Crystal Growth and Design</i> , 2004, 4, 749-753.	1.4	6
161	Modeling of Thermal-Assisted Dislocation Friction. <i>Tribology Letters</i> , 2010, 37, 283-288.	1.2	6
162	Compositional Inhomogeneity and Corner Enrichment of Pt in Pt/Pd Bimetallic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21069-21075.	1.5	6

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