

# Ole Martin Løvvik

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

129  
papers

3,386  
citations

32  
h-index

54  
g-index

132  
ext. papers

3,750  
ext. citations

3.9  
avg, IF

5.44  
L-index

#	Paper	IF	Citations
129	Attaining Low Lattice Thermal Conductivity in Half-Heusler Sublattice Solid Solutions: Which Substitution Site Is Most Effective?. <i>Electronic Materials</i> , <b>2022</b> , 3, 1-14	0.8	
128	High entropy alloy CrFeNiCoCu sputter deposited films: Structure, electrical properties, and oxidation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2022</b> , 40, 023402	2.9	
127	Lattice thermal conductivity of half-Heuslers with density functional theory and machine learning: Enhancing predictivity by active sampling with principal component analysis. <i>Computational Materials Science</i> , <b>2022</b> , 202, 110938	3.2	3
126	New structure and insight on the phase transition within the Cu-Pd-Sn system with 25 at. % Sn.. <i>Materialia</i> , <b>2022</b> , 101461	3.2	
125	Fabrication of a Silicide Thermoelectric Module Employing Fractional Factorial Design Principles. <i>Journal of Electronic Materials</i> , <b>2021</b> , 50, 4041-4049	1.9	2
124	Jahn-Teller active fluoroperovskites ACrF3 (A=Na+,K+): Magnetic and thermo-optical properties. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	1
123	Discarded gems: Thermoelectric performance of materials with band gap emerging at the hybrid-functional level. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 081902	3.4	0
122	Vacancy diffusion in palladium hydrides. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 13680-13686	3.6	0
121	Hydrogen induced vacancy clustering and void formation mechanisms at grain boundaries in palladium. <i>Acta Materialia</i> , <b>2020</b> , 195, 708-719	8.4	10
120	Structural and magnetic characterization of the elusive Jahn-Teller active NaCrF3. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	2
119	Screening of thermoelectric silicides with atomistic transport calculations. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 125105	2.5	0
118	Calculation of the anisotropic coefficients of thermal expansion: A first-principles approach. <i>Computational Materials Science</i> , <b>2019</b> , 167, 257-263	3.2	8
117	Application of machine learning-based selective sampling to determine BaZrO3 grain boundary structures. <i>Computational Materials Science</i> , <b>2019</b> , 164, 57-65	3.2	4
116	Determining the Optimal Phase-Change Material via High-Throughput Calculations. <i>MRS Advances</i> , <b>2019</b> , 4, 2679-2687	0.7	2
115	A Review of Eutectic Au-Ge Solder Joints. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 4632-4641	2.3	2
114	Investigation of the electrostatic potential of a grain boundary in Y-substituted BaZrO using inline electron holography. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 17662-17672	3.6	3
113	Thermoelectric transport trends in group 4 half-Heusler alloys. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 145102	2.5	15

112	Effectiveness of Neural Networks for Research on Novel Thermoelectric Materials. A Proof of Concept. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 69-77	0.3	
111	Decohesion Energy of (Sigma 5(012)) Grain Boundaries in Ni as Function of Hydrogen Content. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 451-456	2.3	2
110	Segregation of Mg, Cu and their effects on the strength of Al B (210)[001] symmetrical tilt grain boundary. <i>Acta Materialia</i> , <b>2018</b> , 145, 235-246	8.4	59
109	Formation of nanoporous Si upon self-organized growth of Al and Si nanostructures. <i>Nanotechnology</i> , <b>2018</b> , 29, 315602	3.4	5
108	Leakage evolution and atomic-scale changes in Pd-based membranes induced by long-term hydrogen permeation. <i>Journal of Membrane Science</i> , <b>2018</b> , 563, 398-404	9.6	19
107	Boron-doping of cubic SiC for intermediate band solar cells: a scanning transmission electron microscopy study. <i>SciPost Physics</i> , <b>2018</b> , 5,	6.1	2
106	Valence charge distribution in homogenous silicon-aluminium thin-films. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 335502	1.8	1
105	Optical and Microstructural Investigation of Heavy B-Doping Effects in Sublimation-Grown 3C-SiC. <i>Materials Science Forum</i> , <b>2018</b> , 924, 221-224	0.4	1
104	Discovering Thermoelectric Materials Using Machine Learning: Insights and Challenges. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 392-401	0.9	4
103	Grain Boundary Segregation in Pd-Cu-Ag Alloys for High Permeability Hydrogen Separation Membranes. <i>Membranes</i> , <b>2018</b> , 8,	3.8	4
102	Predicting the thermoelectric figure-of-merit from first principles. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 10227-10234	1.4	5
101	Lattice thermal conductivity of $Ti_xZr_{1-x}NiSn$ half-Heusler alloys calculated from first principles: Key role of nature of phonon modes. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	59
100	Optimising multi-frame ADF-STEM for high-precision atomic-resolution strain mapping. <i>Ultramicroscopy</i> , <b>2017</b> , 179, 57-62	3.1	36
99	The role of grain boundary scattering in reducing the thermal conductivity of polycrystalline XNiSn (X = Hf, Zr, Ti) half-Heusler alloys. <i>Scientific Reports</i> , <b>2017</b> , 7, 13760	4.9	43
98	Characterization of B-Implanted 3C-SiC for Intermediate Band Solar Cells. <i>Materials Science Forum</i> , <b>2017</b> , 897, 299-302	0.4	1
97	Interface phenomena in magnetron sputtered CuO/ZnO heterostructures. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 435002	1.8	2
96	Twinnability of AlMg alloys: A first-principles interpretation. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2017</b> , 27, 1313-1318	3.3	2
95	Combined effect of Mg and vacancy on the generalized planar fault energy of Al. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 690, 841-850	5.7	14

94	Thermoelectric module for high temperature application <b>2017</b> ,		2
93	Mapping the Chemistry Within, and the Strain Around, Al-alloy Precipitates at Atomic Resolution by Multi-frame Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 384-385 <sup>0.5</sup>		
92	Atomic scale study of Cu <sub>2</sub> O/ZnO heterojunction interfaces by TEM, STEM and DFT <b>2016</b> , 676-677		
91	Comparing electrochemical performance of transition metal silicate cathodes and chevrel phase Mo <sub>6</sub> S <sub>8</sub> in the analogous rechargeable Mg-ion battery system. <i>Journal of Power Sources</i> , <b>2016</b> , 321, 76-86 <sup>8.9</sup>		20
90	Boron-Implanted 3C-SiC for Intermediate Band Solar Cells. <i>Materials Science Forum</i> , <b>2016</b> , 858, 291-294	0.4	5
89	Nanocomposites of few-layer graphene oxide and alumina by density functional theory calculations. <i>Journal of the European Ceramic Society</i> , <b>2016</b> , 36, 719-724	6	10
88	Cubic silicon carbide as a potential photovoltaic material. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 145, 104-108	6.4	32
87	Structural properties of Cu <sub>2</sub> O epitaxial films grown on c-axis single crystal ZnO by magnetron sputtering. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 152110	3.4	9
86	Enhancement of thermoelectric properties by energy filtering: Theoretical potential and experimental reality in nanostructured ZnSb. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 125103	2.5	25
85	Direct-to-indirect bandgap transitions in <110> silicon nanowires. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 015702	2.5	15
84	Impurity effect of Mg on the generalized planar fault energy of Al. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 6552-6568	4.3	31
83	Epitaxial Strain-Induced Growth of CuO at Cu <sub>2</sub> O/ZnO Interfaces. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 23552-23558	3.8	11
82	Nanostructuring of Undoped ZnSb by Cryo-Milling. <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 2578-2584	1.9	14
81	Hydrogen embrittlement in nickel, visited by first principles modeling, cohesive zone simulation and nanomechanical testing. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 16892-16900	6.7	69
80	Multi-component solid solution and cluster hardening of AlMnSi alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 625, 153-157	5.3	14
79	Density Functional Study of the $\beta$ Phase in Al-Mg-Si Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 2916-2924	2.3	16
78	Initial stages of ITO/Si interface formation: In situ x-ray photoelectron spectroscopy measurements upon magnetron sputtering and atomistic modelling using density functional theory. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 083705	2.5	13
77	Removal of Phosphorus in Metallurgical Silicon by Rare Earth Elements. <i>Metallurgical and Materials Transactions E</i> , <b>2014</b> , 1, 257-262		1

76	Oxygen Nonstoichiometry in $(\text{Ca}_2\text{CoO}_3)_{0.62}(\text{CoO}_2)$ : A Combined Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 18899-18907	3.8	22
75	Prediction of solute diffusivity in Al assisted by first-principles molecular dynamics. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 025403	1.8	5
74	Perovskite to postperovskite transition in $\text{NaFeF}_3$ . <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 12205-14	5.1	14
73	Detailed atomistic insight into the $\beta$ phase in $\text{AlMgBi}$ alloys. <i>Acta Materialia</i> , <b>2014</b> , 69, 126-134	8.4	115
72	First-principles calculations on sulfur interacting with ternary $\text{PdAg}$ -transition metal alloy membrane alloys. <i>Journal of Membrane Science</i> , <b>2014</b> , 453, 525-531	9.6	15
71	X-ray photoelectron spectroscopy investigation of magnetron sputtered $\text{MgTi}$ thin films. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 10704-10715	6.7	16
70	Effect of Temperature on the Die Shear Strength of a Au-Sn SLID Bond. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 2914-2916	2.3	21
69	High Temperature Interconnect and Die Attach Technology: AuSn SLID Bonding. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2013</b> , 3, 904-914	1.7	35
68	On the Complex Structural Picture of the Ionic Conductor $\text{Sr}_6\text{Ta}_2\text{O}_{11}$ . <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 9543-9549	3.8	6
67	Effect of Transition Metal Dopants on Initial Mass Transport in the Dehydrogenation of $\text{NaAlH}_4$ : Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 3-14	3.8	18
66	$\text{Si}_3\text{N}_4(0001)/\text{Si}(111)$ interface: Phosphorus defects, valence band offsets, and their role of passivating the interface states. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	11
65	Interfacial Charge Transfer and Chemical Bonding in a $\text{Ni/LaNbO}_4$ Cermet for Proton-Conducting Solid-Oxide Fuel Cell Anodes. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 4152-4159	9.6	14
64	Combined XPS and first principle study of metastable $\text{MgTi}$ thin films. <i>Surface and Interface Analysis</i> , <b>2012</b> , 44, 986-988	1.5	6
63	Au-Sn SLID Bonding Properties and Possibilities. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2012</b> , 43, 397-405	2.5	64
62	Hydrogen energetics and charge transfer in the $\text{Ni/LaNbO}_4$ interface from DFT calculations. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 8033-8042	6.7	6
61	Atomistic study of $\text{LaNbO}_4$ ; surface properties and hydrogen adsorption. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 6674-6685	6.7	12
60	Hydrogen induced stabilization of meta-stable Mg-Ti. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 111902	3.4	7
59	Theoretical analysis of oxygen vacancies in layered sodium cobaltate, $\text{Na}_x\text{CoO}_2$ . <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 475505	1.8	12

58	Crystal structure and dynamics of Mg(ND <sub>3</sub> ) <sub>6</sub> Cl <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 7644-8	3.6	9
57	Self-diffusion in Zn <sub>4</sub> Sb <sub>3</sub> from first-principles molecular dynamics. <i>Computational Materials Science</i> , <b>2011</b> , 50, 2663-2665	3.2	10
56	Adjustment of the decomposition path for Na <sub>2</sub> LiAlH <sub>6</sub> by TiF <sub>3</sub> addition. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 12279-12285	6.7	7
55	Nanovoids in thermoelectric $\delta$ -Zn <sub>4</sub> Sb <sub>3</sub> : A possibility for nanoengineering via Zn diffusion. <i>Acta Materialia</i> , <b>2011</b> , 59, 5266-5275	8.4	32
54	Nanostructuring in $\delta$ -Zn <sub>4</sub> Sb <sub>3</sub> with variable starting Zn compositions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2011</b> , 208, 1652-1657	1.6	22
53	XPS characterisation of in situ treated lanthanum oxide and hydroxide using tailored charge referencing and peak fitting procedures. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2011</b> , 184, 399-409	1.7	323
52	Decomposition of lithium magnesium aluminum hydride. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 7602-7611	6.7	11
51	Electronic origins for sulfur interactions with palladium alloys for hydrogen-selective membranes. <i>Journal of Membrane Science</i> , <b>2011</b> , 375, 96-103	9.6	21
50	Experimental and theoretical study of electron density and structure factors in CoSb <sub>3</sub> <i>Ultramicroscopy</i> , <b>2011</b> , 111, 847-53	3.1	10
49	Density functional calculations of Ti nanoclusters in the metastable Mg-Ti system. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	12
48	Role of the self-interaction error in studying chemisorption on graphene from first-principles. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	20
47	Bond analysis of phosphorus skutterudites: Elongated lanthanum electron buildup in LaFe <sub>4</sub> P <sub>12</sub> . <i>Computational Materials Science</i> , <b>2010</b> , 47, 752-757	3.2	6
46	Surface stability of potassium nitrate (KNO <sub>3</sub> ) from density functional theory. <i>Computational Materials Science</i> , <b>2010</b> , 50, 356-362	3.2	6
45	X-ray photoelectron spectroscopy study of MgH <sub>2</sub> thin films grown by reactive sputtering. <i>Surface and Interface Analysis</i> , <b>2010</b> , 42, 1140-1143	1.5	1
44	Characterization of thin and ultrathin transparent conducting oxide (TCO) films and TCO-Si interfaces with XPS, TEM and ab initio modeling. <i>Surface and Interface Analysis</i> , <b>2010</b> , 42, 874-877	1.5	6
43	Electronic structure studies of Ni-X (X: B, S, P) alloys using x-ray photoelectron spectroscopy, x-ray induced Auger electron spectroscopy and density functional theory calculations. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 245503	1.8	12
42	Viable storage of hydrogen in materials with off-board recharging using high-temperature electrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 2679-2683	6.7	6
41	Surfaces and Clusters of Mg(NH <sub>2</sub> ) <sub>2</sub> Studied by Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 21648-21656	3.8	3

40	Understanding adsorption of hydrogen atoms on graphene. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 054704	9.4	277
39	The crystal structure of LiMgAlD6 from combined neutron and synchrotron X-ray powder diffraction. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 460, 64-68	5.7	16
38	Thermodynamic modeling of the NaAlTi system and Ti dissolution in sodium alanates. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2008</b> , 32, 624-636	1.9	13
37	Experimental studies of $\text{AlD}_3$ and $\text{TiAlD}_3$ versus first-principles modelling of the alane isomorphs. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 2361		32
36	Density Functional Theory Study of the TiH <sub>2</sub> Interaction with a NaAlH <sub>4</sub> Cluster. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 15759-15764	3.8	20
35	New filled P-based skutterudites promising materials for thermoelectricity?. <i>New Journal of Physics</i> , <b>2008</b> , 10, 053004	2.9	6
34	Highly destabilized Mg-Ti-Ni-H system investigated by density functional theory and hydrogenography. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	32
33	Reversed surface segregation in palladium-silver alloys due to hydrogen adsorption. <i>Surface Science</i> , <b>2008</b> , 602, 2840-2844	1.8	72
32	Comparison of the electronic structure of a thermoelectric skutterudite before and after adding rattlers: an electron energy loss study. <i>Micron</i> , <b>2008</b> , 39, 685-9	2.3	4
31	NaAlH <sub>4</sub> Clusters with Two Titanium Atoms Added. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 8206-8213	3.8	20
30	Integrated experimental-theoretical investigation of the Na-Li-Al-H system. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 1401-9	5.1	14
29	Hydrogen interactions with the PdCu ordered B2 alloy. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 446-447, 583-587	5.7	47
28	Comparison of theoretical and experimental dielectric functions: Electron energy-loss spectroscopy and density-functional calculations on skutterudites. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	25
27	Stability of Ti in NaAlH <sub>4</sub> . <i>Applied Physics Letters</i> , <b>2006</b> , 88, 161917	3.4	32
26	The crystal structure and surface energy of NaAlH <sub>4</sub> : a comparison of DFT methodologies. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 622-30	3.4	38
25	The crystal structure of Zr <sub>2</sub> NiD <sub>4.5</sub> . <i>Acta Crystallographica Section B: Structural Science</i> , <b>2006</b> , 62, 972-8		2
24	A density functional theory study of Ti-doped NaAlH <sub>4</sub> clusters. <i>Chemical Physics Letters</i> , <b>2006</b> , 426, 180-186	1.6	25
23	Modeling alkali alanates for hydrogen storage by density-functional band-structure calculations. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 3199-3213	2.5	39



22	Crystal structures and electronic structures of alkali aluminohexahydrides from density functional calculations. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 404-406, 757-761	5.7	15
21	Surface segregation in palladium based alloys from density-functional calculations. <i>Surface Science</i> , <b>2005</b> , 583, 100-106	1.8	101
20	Crystal structure of Ca(AlH <sub>4</sub> ) <sub>2</sub> predicted from density-functional band-structure calculations. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	56
19	Experimental and theoretical studies of plasma resonance and the electronic structure of binary skutterudites. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 886, 1		
18	Density functional calculations of Ti-enhanced NaAlH <sub>4</sub> . <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	103
17	Density-functional band-structure calculations of magnesium alanate Mg(AlH <sub>4</sub> ) <sub>2</sub> . <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	23
16	Structure and stability of possible new alanates. <i>Europhysics Letters</i> , <b>2004</b> , 67, 607-613	1.6	39
15	Crystal structure and thermodynamic stability of the lithium alanates LiAlH <sub>4</sub> and Li <sub>3</sub> AlH <sub>6</sub> . <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	100
14	The influence of electronic structure on hydrogen absorption in palladium alloys. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 6267-6277	1.8	64
13	Density-functional band-structure calculations for La-, Y-, and Sc-filled CoP <sub>3</sub> -based skutterudite structures. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	26
12	Adsorption of Ti on LiAlH <sub>4</sub> surfaces studied by band structure calculations. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 373, 28-32	5.7	10
11	Density functional calculations of hydrogen adsorption on palladium-silver alloy surfaces. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 3268-3276	3.9	57
10	Periodic band calculation on low index surfaces of crystalline LiAlH <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 356-357, 178-180	5.7	14
9	A study of a polymer-based radiative cooling system. <i>Solar Energy</i> , <b>2002</b> , 73, 403-417	6.8	77
8	Density functional calculations on hydrogen in palladium-silver alloys. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 330-332, 332-337	5.7	51
7	Adsorption energies and ordered structures of hydrogen on Pd(111) from density-functional periodic calculations. <i>Physical Review B</i> , <b>1998</b> , 58, 10890-10898	3.3	78
6	The influence of surface motion on the direct subsurface absorption of H <sub>2</sub> on Pd(111). <i>Journal of Chemical Physics</i> , <b>1997</b> , 107, 10652-10661	3.9	36
5	Direct subsurface absorption of hydrogen on Pd(111): Quantum mechanical calculations on a new two-dimensional potential energy surface. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 9286-9296	3.9	39



4	Direct subsurface absorption of hydrogen on Pd(111). <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 4330-4336	3.9	9
3	Model calculations on a flat-plate solar heat collector with integrated solar cells. <i>Solar Energy</i> , <b>1995</b> , 55, 453-462	6.8	249
2	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. <i>Advanced Energy Materials</i> , 2102785	21.8	10
1	Controlling the Electrical Properties of Reactively Sputtered High Entropy Alloy CrFeNiCoCu Films. <i>Journal of Electronic Materials</i> , 1	1.9	0