Ole Martin Lvvik

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#	Paper	IF	Citations
129	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> , 2011 , 184, 399-409	1.7	323
128	Understanding adsorption of hydrogen atoms on graphene. <i>Journal of Chemical Physics</i> , 2009 , 130, 054	47 9.	277
127	Model calculations on a flat-plate solar heat collector with integrated solar cells. <i>Solar Energy</i> , 1995 , 55, 453-462	6.8	249
126	Detailed atomistic insight into the I phase in AlMgBi alloys. <i>Acta Materialia</i> , 2014 , 69, 126-134	8.4	115
125	Density functional calculations of Ti-enhanced NaAlH4. <i>Physical Review B</i> , 2005 , 71,	3.3	103
124	Surface segregation in palladium based alloys from density-functional calculations. <i>Surface Science</i> , 2005 , 583, 100-106	1.8	101
123	Crystal structure and thermodynamic stability of the lithium alanates LiAlH4 and Li3AlH6. <i>Physical Review B</i> , 2004 , 69,	3.3	100
122	Adsorption energies and ordered structures of hydrogen on Pd(111) from density-functional periodic calculations. <i>Physical Review B</i> , 1998 , 58, 10890-10898	3.3	78
121	A study of a polymer-based radiative cooling system. <i>Solar Energy</i> , 2002 , 73, 403-417	6.8	77
120	Reversed surface segregation in palladium-silver alloys due to hydrogen adsorption. <i>Surface Science</i> , 2008 , 602, 2840-2844	1.8	72
119	Hydrogen embrittlement in nickel, visited by first principles modeling, cohesive zone simulation and nanomechanical testing. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 16892-16900	6.7	69
118	Au-Sn SLID Bonding P roperties and Possibilities. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2012 , 43, 397-405	2.5	64
117	The influence of electronic structure on hydrogen absorption in palladium alloys. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 6267-6277	1.8	64
116	Lattice thermal conductivity of TixZryHf1MJNiSn half-Heusler alloys calculated from first principles: Key role of nature of phonon modes. <i>Physical Review B</i> , 2017 , 95,	3.3	59
115	Segregation of Mg, Cu and their effects on the strength of Al B (210)[001] symmetrical tilt grain boundary. <i>Acta Materialia</i> , 2018 , 145, 235-246	8.4	59
114	Density functional calculations of hydrogen adsorption on palladiumBilver alloy surfaces. <i>Journal of Chemical Physics</i> , 2003 , 118, 3268-3276	3.9	57
113	Crystal structure of Ca(AlH4)2 predicted from density-functional band-structure calculations. <i>Physical Review B</i> , 2005 , 71,	3.3	56

(2006-2002)

Density functional calculations on hydrogen in palladium lilver alloys. <i>Journal of Alloys and Compounds</i> , 2002 , 330-332, 332-337	5.7	51	
Hydrogen interactions with the PdCu ordered B2 alloy. <i>Journal of Alloys and Compounds</i> , 2007 , 446-447, 583-587	5.7	47	
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> , 2017 , 7, 13760	4.9	43	
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> , 1997 , 106, 9286-9296	3.9	39	
Modeling alkali alanates for hydrogen storage by density-functional band-structure calculations. <i>Journal of Materials Research</i> , 2005 , 20, 3199-3213	2.5	39	
Structure and stability of possible new alanates. <i>Europhysics Letters</i> , 2004 , 67, 607-613	1.6	39	
The crystal structure and surface energy of NaAlH4: a comparison of DFT methodologies. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 622-30	3.4	38	
Optimising multi-frame ADF-STEM for high-precision atomic-resolution strain mapping. <i>Ultramicroscopy</i> , 2017 , 179, 57-62	3.1	36	
The influence of surface motion on the direct subsurface absorption of H2 on Pd(111). <i>Journal of Chemical Physics</i> , 1997 , 107, 10652-10661	3.9	36	
High Temperature Interconnect and Die Attach Technology: Außn SLID Bonding. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2013 , 3, 904-914	1.7	35	
Cubic silicon carbide as a potential photovoltaic material. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 145, 104-108	6.4	32	
Nanovoids in thermoelectric En4Sb3: A possibility for nanoengineering via Zn diffusion. <i>Acta Materialia</i> , 2011 , 59, 5266-5275	8.4	32	
Experimental studies of #AlD3 and #AlD3versus first-principles modelling of the alane isomorphs. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2361		32	
Highly destabilized Mg-Ti-Ni-H system investigated by density functional theory and hydrogenography. <i>Physical Review B</i> , 2008 , 77,	3.3	32	
Stability of Ti in NaAlH4. <i>Applied Physics Letters</i> , 2006 , 88, 161917	3.4	32	
Impurity effect of Mg on the generalized planar fault energy of Al. <i>Journal of Materials Science</i> , 2016 , 51, 6552-6568	4.3	31	
Density-functional band-structure calculations for La-, Y-, and Sc-filled CoP3-based skutterudite structures. <i>Physical Review B</i> , 2004 , 70,	3.3	26	
Comparison of theoretical and experimental dielectric functions: Electron energy-loss spectroscopy and density-functional calculations on skutterudites. <i>Physical Review B</i> , 2006 , 74,	3.3	25	
	Hydrogen interactions with the PdCu ordered B2 alloy. Journal of Alloys and Compounds, 2007, 446-447, 583-587 The role of grain boundary scattering in reducing the thermal conductivity of polycrystalline XNISn (X = Hf, Zr, Ti) half-Heusler alloys. Scientific Reports, 2017, 7, 13760 Direct subsurface absorption of hydrogen on Pd(111): Quantum mechanical calculations on a new two-dimensional potential energy surface. Journal of Chemical Physics, 1997, 106, 9286-9296 Modeling alkali alanates for hydrogen storage by density-functional band-structure calculations. Journal of Materials Research, 2005, 20, 3199-3213 Structure and stability of possible new alanates. Europhysics Letters, 2004, 67, 607-613 The crystal structure and surface energy of NaAlH4: a comparison of DFT methodologies. Journal of Physical Chemistry 8, 2006, 110, 622-30 Optimising multi-frame ADF-STEM for high-precision atomic-resolution strain mapping. Ultramicroscopy, 2017, 179, 57-62 The influence of surface motion on the direct subsurface absorption of H2 on Pd(111). Journal of Chemical Physics, 1997, 107, 10652-10661 High Temperature Interconnect and Die Attach Technology; Außn SLID Bonding. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 904-914 Cubic silicon carbide as a potential photovoltaic material. Solar Energy Materials and Solar Cells, 2016, 145, 104-108 Nanovoids in thermoelectric Etn4Sb3: A possibility for nanoengineering via Zn diffusion. Acta Materiala, 2011, 59, 5266-5275 Experimental studies of HAID3 and PAID3versus first-principles modelling of the alane isomorphs. Journal of Materials Chemistry, 2008, 18, 2361 Highly destabilized Mg-Ti-Ni-H system investigated by density functional theory and hydrogenography. Physical Review B, 2008, 77, Stability of Ti in NaAlH4. Applied Physics Letters, 2006, 88, 161917 Impurity effect of Mg on the generalized planar fault energy of Al. Journal of Materials Science, 2016, 51, 6552-6568	Hydrogen interactions with the PdCu ordered B2 alloy. Journal of Alloys and Compounds, 2007, 446-447, 583-587 The role of grain boundary scattering in reducing the thermal conductivity of polycrystalline XNISn (X = Hf, Zr, Ti) half-Heusler alloys. Scientific Reports, 2017, 7, 13760 Direct subsurface absorption of hydrogen on Pd(111): Quantum mechanical calculations on a new two-dimensional potential energy surface. Journal of Chemical Physics, 1997, 106, 9286-9296 Modeling alkali alanates for hydrogen storage by density-functional band-structure calculations. Journal of Materials Research, 2005, 20, 3199-3213 Structure and stability of possible new alanates. Europhysics Letters, 2004, 67, 607-613 1.6 The crystal structure and surface energy of NaAlH4: a comparison of DFT methodologies. Journal of Physical Chemistry B, 2006, 110, 622-30 Optimising multi-frame ADF-STEM for high-precision atomic-resolution strain mapping. 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Journal of Materials Science, 2016, 51, 6552-656525-5668 Density-Functional band-structure calculation	Hydrogen interactions with the PdCu ordered B2 alloy. Journal of Alloys and Compounds, 2007, 446-447, 583-587 The role of grain boundary scattering in reducing the thermal conductivity of polycrystalline XNiSn (X = H7, ZT, Ti) half-Heusler alloys. Scientific Reports, 2017, 7, 13760 Direct subsurface absorption of hydrogen on Pd(111): Quantum mechanical calculations on a new two-dimensional potential energy surface. Journal of Chemical Physics, 1997, 106, 9286-9296 39 39 Modeling alkali alanates for hydrogen storage by density-functional band-structure calculations. Journal of Materials Research, 2005, 20, 3199-3213 Structure and stability of possible new alanates. Europhysics Letters, 2004, 67, 607-613 16 39 The crystal structure and surface energy of NaAlH4: a comparison of DFT methodologies. 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Applied Physics Letters, 2006, 88, 161917 34 32 Density-functional band-structure calculations for La-, Y-, and Sc-filled CoP3-based skutterudite structures. Physical Review B, 2004, 70,

94	A density functional theory study of Ti-doped NaAlH4 clusters. Chemical Physics Letters, 2006, 426, 180)-1:86	25
93	Enhancement of thermoelectric properties by energy filtering: Theoretical potential and experimental reality in nanostructured ZnSb. <i>Journal of Applied Physics</i> , 2016 , 119, 125103	2.5	25
92	Density-functional band-structure calculations of magnesium alanate Mg(AlH4)2. <i>Physical Review B</i> , 2005 , 72,	3.3	23
91	Oxygen Nonstoichiometry in (Ca2CoO3)0.62(CoO2): A Combined Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18899-18907	3.8	22
90	Nanostructuring in EZn4Sb3 with variable starting Zn compositions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1652-1657	1.6	22
89	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> , 2013 , 44, 2914-2916	2.3	21
88	Electronic origins for sulfur interactions with palladium alloys for hydrogen-selective membranes. Journal of Membrane Science, 2011 , 375, 96-103	9.6	21
87	Comparing electrochemical performance of transition metal silicate cathodes and chevrel phase Mo6S8 in the analogous rechargeable Mg-ion battery system. <i>Journal of Power Sources</i> , 2016 , 321, 76-	86 ^{8.9}	20
86	Role of the self-interaction error in studying chemisorption on graphene from first-principles. <i>Physical Review B</i> , 2010 , 81,	3.3	20
85	Density Functional Theory Study of the TiH2 Interaction with a NaAlH4 Cluster. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15759-15764	3.8	20
84	NaAlH4 Clusters with Two Titanium Atoms Added. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 8206-821	133.8	20
83	Leakage evolution and atomic-scale changes in Pd-based membranes induced by long-term hydrogen permeation. <i>Journal of Membrane Science</i> , 2018 , 563, 398-404	9.6	19
82	Effect of Transition Metal Dopants on Initial Mass Transport in the Dehydrogenation of NaAlH4: Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3-14	3.8	18
81	Density Functional Study of the IPhase in Al-Mg-Si Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2916-2924	2.3	16
80	X-ray photoelectron spectroscopy investigation of magnetron sputtered MgIII thin films. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 10704-10715	6.7	16
79	The crystal structure of LiMgAlD6 from combined neutron and synchrotron X-ray powder diffraction. <i>Journal of Alloys and Compounds</i> , 2008 , 460, 64-68	5.7	16
78	Thermoelectric transport trends in group 4 half-Heusler alloys. <i>Journal of Applied Physics</i> , 2019 , 126, 145102	2.5	15
77	First-principles calculations on sulfur interacting with ternary PdAg-transition metal alloy membrane alloys. <i>Journal of Membrane Science</i> , 2014 , 453, 525-531	9.6	15

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76	Crystal structures and electronic structures of alkali aluminohexahydrides from density functional calculations. <i>Journal of Alloys and Compounds</i> , 2005 , 404-406, 757-761	5.7	15
75	Direct-to-indirect bandgap transitions in <110> silicon nanowires. <i>Journal of Applied Physics</i> , 2016 , 119, 015702	2.5	15
74	Nanostructuring of Undoped ZnSb by Cryo-Milling. <i>Journal of Electronic Materials</i> , 2015 , 44, 2578-2584	1.9	14
73	Multi-component solid solution and cluster hardening of AlMnBi alloys. <i>Materials Science & amp;</i> Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015 , 625, 153-157	5.3	14
72	Combined effect of Mg and vacancy on the generalized planar fault energy of Al. <i>Journal of Alloys</i> and Compounds, 2017 , 690, 841-850	5.7	14
71	Perovskite to postperovskite transition in NaFeF3. <i>Inorganic Chemistry</i> , 2014 , 53, 12205-14	5.1	14
79	Interfacial Charge Transfer and Chemical Bonding in a NillaNbO4 Cermet for Proton-Conducting Solid-Oxide Fuel Cell Anodes. <i>Chemistry of Materials</i> , 2012 , 24, 4152-4159	9.6	14
69	Integrated experimental-theoretical investigation of the Na-Li-Al-H system. <i>Inorganic Chemistry</i> , 2007 , 46, 1401-9	5.1	14
68	Periodic band calculation on low index surfaces of crystalline LiAlH4. <i>Journal of Alloys and Compounds</i> , 2003 , 356-357, 178-180	5.7	14
67	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> , 2014 , 115, 083705	2.5	13
60	Thermodynamic modeling of the NaAllil system and Ti dissolution in sodium alanates. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2008 , 32, 624-636	1.9	13
65	Atomistic study of LaNbO4; surface properties and hydrogen adsorption. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 6674-6685	6.7	12
64	Density functional calculations of Ti nanoclusters in the metastable Mg-Ti system. <i>Physical Review B</i> , 2010 , 82,	3.3	12
63	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> , 2009 , 21, 245503	1.8	12
62	Theoretical analysis of oxygen vacancies in layered sodium cobaltate, Na(x)CoO(2-¶ <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 475505	1.8	12
6:	ESi3N4(0001)/Si(111) interface: Phosphorus defects, valence band offsets, and their role of passivating the interface states. <i>Physical Review B</i> , 2013 , 88,	3.3	11
60	Decomposition of lithium magnesium aluminum hydride. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 7602-7611	6.7	11
59	Epitaxial Strain-Induced Growth of CuO at Cu2O/ZnO Interfaces. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23552-23558	3.8	11

58	Hydrogen induced vacancy clustering and void formation mechanisms at grain boundaries in palladium. <i>Acta Materialia</i> , 2020 , 195, 708-719	8.4	10
57	Nanocomposites of few-layer graphene oxide and alumina by density functional theory calculations. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 719-724	6	10
56	Self-diffusion in Zn4Sb3 from first-principles molecular dynamics. <i>Computational Materials Science</i> , 2011 , 50, 2663-2665	3.2	10
55	Experimental and theoretical study of electron density and structure factors in CoSbII <i>Ultramicroscopy</i> , 2011 , 111, 847-53	3.1	10
54	Adsorption of Ti on LiAlH4 surfaces studied by band structure calculations. <i>Journal of Alloys and Compounds</i> , 2004 , 373, 28-32	5.7	10
53	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
52	Crystal structure and dynamics of Mg(ND3)6Cl2. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7644-8	3.6	9
51	Direct subsurface absorption of hydrogen on Pd(111). <i>Journal of Chemical Physics</i> , 1996 , 104, 4330-433	6 3.9	9
50	Structural properties of Cu2O epitaxial films grown on c-axis single crystal ZnO by magnetron sputtering. <i>Applied Physics Letters</i> , 2016 , 108, 152110	3.4	9
49	Calculation of the anisotropic coefficients of thermal expansion: A first-principles approach. <i>Computational Materials Science</i> , 2019 , 167, 257-263	3.2	8
48	Adjustment of the decomposition path for Na2LiAlH6 by TiF3 addition. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12279-12285	6.7	7
47	Hydrogen induced stabilization of meta-stable Mg-Ti. <i>Applied Physics Letters</i> , 2012 , 100, 111902	3.4	7
46	On the Complex Structural Picture of the Ionic Conductor Sr6Ta2O11. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9543-9549	3.8	6
45	Combined XPS and first principle study of metastable MgIII thin films. <i>Surface and Interface Analysis</i> , 2012 , 44, 986-988	1.5	6
44	Hydrogen energetics and charge transfer in the Ni/LaNbO4 interface from DFT calculations. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8033-8042	6.7	6
43	Bond analysis of phosphorus skutterudites: Elongated lanthanum electron buildup in LaFe4P12. <i>Computational Materials Science</i> , 2010 , 47, 752-757	3.2	6
42	Surface stability of potassium nitrate (KNO3) from density functional theory. <i>Computational Materials Science</i> , 2010 , 50, 356-362	3.2	6
41	Viable storage of hydrogen in materials with off-board recharging using high-temperature electrolysis. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 2679-2683	6.7	6

40	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> , 2010 , 42, 874-877	1.5	6	
39	New filled P-based skutteruditespromising materials for thermoelectricity?. <i>New Journal of Physics</i> , 2008 , 10, 053004	2.9	6	
38	Boron-Implanted 3C-SiC for Intermediate Band Solar Cells. <i>Materials Science Forum</i> , 2016 , 858, 291-294	0.4	5	
37	Formation of nanoporous Si upon self-organized growth of Al and Si nanostructures. <i>Nanotechnology</i> , 2018 , 29, 315602	3.4	5	
36	Prediction of solute diffusivity in Al assisted by first-principles molecular dynamics. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 025403	1.8	5	
35	Predicting the thermoelectric figure-of-merit from first principles. <i>Materials Today: Proceedings</i> , 2018 , 5, 10227-10234	1.4	5	
34	Application of machine learning-based selective sampling to determine BaZrO3 grain boundary structures. <i>Computational Materials Science</i> , 2019 , 164, 57-65	3.2	4	
33	Comparison of the electronic structure of a thermoelectric skutterudite before and after adding rattlers: an electron energy loss study. <i>Micron</i> , 2008 , 39, 685-9	2.3	4	
32	Discovering Thermoelectric Materials Using Machine Learning: Insights and Challenges. <i>Lecture Notes in Computer Science</i> , 2018 , 392-401	0.9	4	
31	Grain Boundary Segregation in Pd-Cu-Ag Alloys for High Permeability Hydrogen Separation Membranes. <i>Membranes</i> , 2018 , 8,	3.8	4	
30	Investigation of the electrostatic potential of a grain boundary in Y-substituted BaZrO using inline electron holography. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 17662-17672	3.6	3	
29	Surfaces and Clusters of Mg(NH2)2 Studied by Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21648-21656	3.8	3	
28	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> , 2022 , 202, 110938	3.2	3	
27	Determining the Optimal Phase-Change Material via High-Throughput Calculations. <i>MRS Advances</i> , 2019 , 4, 2679-2687	0.7	2	
26	A Review of Eutectic Au-Ge Solder Joints. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 4632-4641	2.3	2	
25	Interface phenomena in magnetron sputtered CuO/ZnO heterostructures. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 435002	1.8	2	
24	Twinnability of AlMg alloys: A first-principles interpretation. <i>Transactions of Nonferrous Metals Society of China</i> , 2017 , 27, 1313-1318	3.3	2	
23	Thermoelectric module for high temperature application 2017 ,		2	

22	The crystal structure of Zr2NiD4.5. Acta Crystallographica Section B: Structural Science, 2006, 62, 972-8		2
21	Structural and magnetic characterization of the elusive Jahn-Teller active NaCrF3. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
20	Boron-doping of cubic SiC for intermediate band solar cells: a scanning transmission electron microscopy study. <i>SciPost Physics</i> , 2018 , 5,	6.1	2
19	Fabrication of a Silicide Thermoelectric Module Employing Fractional Factorial Design Principles. Journal of Electronic Materials, 2021 , 50, 4041-4049	1.9	2
18	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> , 2019 , 50, 451-456	2.3	2
17	Characterization of B-Implanted 3C-SiC for Intermediate Band Solar Cells. <i>Materials Science Forum</i> , 2017 , 897, 299-302	0.4	1
16	Removal of Phosphorus in Metallurgical Silicon by Rare Earth Elements. <i>Metallurgical and Materials Transactions E</i> , 2014 , 1, 257-262		1
15	X-ray photoelectron spectroscopy study of MgH2 thin films grown by reactive sputtering. <i>Surface and Interface Analysis</i> , 2010 , 42, 1140-1143	1.5	1
14	Jahn-Teller active fluoroperovskites ACrF3 (A=Na+,K+): Magnetic and thermo-optical properties. <i>Physical Review Materials</i> , 2021 , 5,	3.2	1
13	Valence charge distribution in homogenous silicon-aluminium thin-films. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 335502	1.8	1
12	Optical and Microstructural Investigation of Heavy B-Doping Effects in Sublimation-Grown 3C-SiC. <i>Materials Science Forum</i> , 2018 , 924, 221-224	0.4	1
11	Controlling the Electrical Properties of Reactively Sputtered High Entropy Alloy CrFeNiCoCu Films. Journal of Electronic Materials,1	1.9	O
10	Screening of thermoelectric silicides with atomistic transport calculations. <i>Journal of Applied Physics</i> , 2020 , 128, 125105	2.5	О
9	Discarded gems: Thermoelectric performance of materials with band gap emerging at the hybrid-functional level. <i>Applied Physics Letters</i> , 2021 , 119, 081902	3.4	O
8	Vacancy diffusion in palladium hydrides. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 13680-13686	3.6	0
7	Atomic scale study of Cu2O/ZnO heterojunction interfaces by TEM, STEM and DFT 2016 , 676-677		
6	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> , 2017 , 23, 384-38	35 ^{0.5}	
5	Experimental and theoretical studies of plasma resonance and the electronic structure of binary skutterudites. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 886, 1		

LIST OF PUBLICATIONS

4	Attaining Low Lattice Thermal Conductivity in Half-Heusler Sublattice Solid Solutions: Which Substitution Site Is Most Effective?. <i>Electronic Materials</i> , 2022 , 3, 1-14	0.8
3	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> , 2022 , 40, 023402	2.9
2	Effectiveness of Neural Networks for Research on Novel Thermoelectric Materials. A Proof of Concept. <i>Communications in Computer and Information Science</i> , 2019 , 69-77	0.3
1	New structure and insight on the phase transition within the Cu-Pd-Sn system with 25 at. % Sn <i>Materialia</i> , 2022 , 101461	3.2