

John Charles Walmsley

List of Publications by Year in descending order

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166
papers

6,282
citations

57758

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docs citations

169
times ranked

6565
citing authors

#	ARTICLE	IF	CITATIONS
1	Fischer-Tropsch synthesis: Cobalt particle size and support effects on intrinsic activity and product distribution. <i>Journal of Catalysis</i> , 2008, 259, 161-164.	6.2	297
2	The effect of Cu on precipitation in Al-Mg-Si alloys. <i>Philosophical Magazine</i> , 2007, 87, 3385-3413.	1.6	238
3	Wavefront dislocations in the Aharonov-Bohm effect and its water wave analogue. <i>European Journal of Physics</i> , 1980, 1, 154-162.	0.6	196
4	Composition of I_2O_3 precipitates in Al-Mg-Si alloys by atom probe tomography and first principles calculations. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	185
5	Characterization of alumina-, silica-, and titania-supported cobalt Fischer-Tropsch catalysts. <i>Journal of Catalysis</i> , 2005, 236, 139-152.	6.2	182
6	Effect of artificial aging on intergranular corrosion of extruded AlMgSi alloy with small Cu content. <i>Corrosion Science</i> , 2006, 48, 1528-1543.	6.6	176
7	The nature of active chromium species in Cr-catalysts for dehydrogenation of propane: New insights by a comprehensive spectroscopic study. <i>Journal of Catalysis</i> , 2009, 261, 116-128.	6.2	150
8	Co-Ni Catalysts Derived from Hydrotalcite-Like Materials for Hydrogen Production by Ethanol Steam Reforming. <i>Topics in Catalysis</i> , 2009, 52, 206-217.	2.8	133
9	Dehydrogenation of propane over Pt-SBA-15 and Pt-Sn-SBA-15: Effect of Sn on the dispersion of Pt and catalytic behavior. <i>Catalysis Today</i> , 2009, 142, 17-23.	4.4	128
10	Formation of a zirconium-titanium based conversion layer on AA 6060 aluminium. <i>Surface and Coatings Technology</i> , 2002, 153, 72-78.	4.8	126
11	The influence of composition and natural aging on clustering during preaging in Al-Mg-Si alloys. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	120
12	Dehydrogenation of propane over Pt-SBA-15: Effect of Pt particle size. <i>Catalysis Communications</i> , 2008, 9, 747-750.	3.3	113
13	Geometrically confined favourable ion packing for high gravimetric capacitance in carbon-ionic liquid supercapacitors. <i>Energy and Environmental Science</i> , 2016, 9, 232-239.	30.8	109
14	Intergranular Corrosion of Copper-Containing AA6xxx AlMgSi Aluminum Alloys. <i>Journal of the Electrochemical Society</i> , 2008, 155, C550.	2.9	102
15	Thin Pd-23%Ag/stainless steel composite membranes: Long-term stability, life-time estimation and post-process characterisation. <i>Journal of Membrane Science</i> , 2009, 326, 572-581.	8.2	96
16	Mechanical Properties and Processing Techniques of Bulk Metal-Organic Framework Glasses. <i>Journal of the American Chemical Society</i> , 2019, 141, 1027-1034.	13.7	93
17	Formation and characterisation of a chromate conversion coating on AA6060 aluminium. <i>Corrosion Science</i> , 2005, 47, 1604-1624.	6.6	92
18	On the selectivity of cobalt-based Fischer-Tropsch catalysts: Evidence for a common precursor for methane and long-chain hydrocarbons. <i>Journal of Catalysis</i> , 2010, 274, 84-98.	6.2	92

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19	Quantitative analysis of grain refinement in titanium during equal channel angular pressing. <i>Scripta Materialia</i> , 2011, 64, 904-907.	5.2	91
20	Effect of Excess Silicon and Small Copper Content on Intergranular Corrosion of 6000-Series Aluminum Alloys. <i>Journal of the Electrochemical Society</i> , 2010, 157, C61.	2.9	89
21	Study of intergrown L and Q ϵ^2 precipitates in Al-Mg-Si-Cu alloys. <i>Scripta Materialia</i> , 2011, 64, 817-820.	5.2	84
22	Evaluation of Reoxidation Thresholds for Al_2O_3 -Supported Cobalt Catalysts under Fischer-Tropsch Synthesis Conditions. <i>Journal of the American Chemical Society</i> , 2017, 139, 3706-3715.	13.7	84
23	Anodising as pre-treatment for structural bonding. <i>International Journal of Adhesion and Adhesives</i> , 2003, 23, 401-412.	2.9	83
24	Microstructure evolution of commercial pure titanium during equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 789-796.	5.6	80
25	Effect of composition and preparation of supported MoO ₃ catalysts for anisole hydrodeoxygenation. <i>Chemical Engineering Journal</i> , 2018, 335, 120-132.	12.7	79
26	One-step electrochemical synthesis of tunable nitrogen-doped graphene. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1233-1243.	10.3	69
27	Faceted interfacial structure of {101 $\bar{1}$ } twins in Ti formed during equal channel angular pressing. <i>Scripta Materialia</i> , 2010, 62, 443-446.	5.2	68
28	Ru@Pt core-shell nanoparticles for methanol fuel cell catalyst: Control and effects of shell composition. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16631-16641.	7.1	64
29	Toward Three-Dimensional Nanoengineering of Heterogeneous Catalysts. <i>Journal of the American Chemical Society</i> , 2008, 130, 5716-5719.	13.7	63
30	Platinum nanoparticles encapsulated in mesoporous silica: Preparation, characterisation and catalytic activity in toluene hydrogenation. <i>Microporous and Mesoporous Materials</i> , 2005, 86, 198-206.	4.4	62
31	Effect of water on the space-time yield of different supported cobalt catalysts during Fischer-Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2011, 393, 109-121.	4.3	62
32	Nitrogen-doped carbon nanofibers on expanded graphite as oxygen reduction electrocatalysts. <i>Carbon</i> , 2016, 101, 191-202.	10.3	62
33	The role of retained austenite in hydrogen embrittlement of supermartensitic stainless steel. <i>Engineering Failure Analysis</i> , 2013, 34, 140-149.	4.0	61
34	Fabrication of K-promoted iron/carbon nanotubes composite catalysts for the Fischer-Tropsch synthesis of lower olefins. <i>Journal of Energy Chemistry</i> , 2016, 25, 311-317.	12.9	55
35	Electron-microscopy studies of NaAlH ₄ with TiF ₃ additive: hydrogen-cycling effects. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 709-715.	2.3	53
36	Small-scale hydrogen production from propane. <i>Catalysis Today</i> , 2005, 100, 457-462.	4.4	53

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37	Importance of Oxygen-Free Edge and Defect Sites for the Immobilization of Colloidal Pt Oxide Particles with Implications for the Preparation of CNF-Supported Catalysts. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1752-1762.	3.1	53
38	Deformation Structures of Pure Titanium during Shear Deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 787-794.	2.2	50
39	Hydrodesulfurization of thiophene on carbon nanofiber supported Co/Ni/Mo catalysts. <i>Applied Catalysis B: Environmental</i> , 2008, 84, 482-489.	20.2	49
40	In-Situ Reduction of Promoted Cobalt Oxide Supported on Alumina by Environmental Transmission Electron Microscopy. <i>Catalysis Letters</i> , 2011, 141, 754-761.	2.6	49
41	Studies of self-supported 1.6 μ m Pd/23wt.% Ag membranes during and after hydrogen production in a catalytic membrane reactor. <i>Catalysis Today</i> , 2006, 118, 63-72.	4.4	48
42	A combined in situ XAS-XRPD-Raman study of Fischer-Tropsch synthesis over a carbon supported Co catalyst. <i>Catalysis Today</i> , 2013, 205, 86-93.	4.4	48
43	Effects of thermal activation on hydrogen permeation properties of thin, self-supported Pd/Ag membranes. <i>Separation and Purification Technology</i> , 2009, 68, 403-410.	7.9	46
44	Apatite inclusions in natural diamond coat. <i>Physics and Chemistry of Minerals</i> , 1983, 9, 6-8.	0.8	45
45	Mechanisms of inclusion formation in low alloy steels deoxidised with titanium. <i>Materials Science and Technology</i> , 2000, 16, 55-64.	1.6	45
46	The effects of ball milling intensity on morphology of multiwall carbon nanotubes. <i>Scripta Materialia</i> , 2010, 63, 637-640.	5.2	45
47	Liquid metal embrittlement of aluminium by segregation of trace element gallium. <i>Corrosion Science</i> , 2014, 85, 167-173.	6.6	40
48	CaO Nanoparticles Coated by ZrO ₂ Layers for Enhanced CO ₂ Capture Stability. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 8929-8939.	3.7	40
49	Slow carrier relaxation in tin-based perovskite nanocrystals. <i>Nature Photonics</i> , 2021, 15, 696-702.	31.4	40
50	Evaluation of ORR active sites in nitrogen-doped carbon nanofibers by KOH post treatment. <i>Catalysis Today</i> , 2018, 301, 11-16.	4.4	36
51	Microstructural characterization of self-supported 1.6 μ m Pd/Ag membranes. <i>Journal of Membrane Science</i> , 2008, 310, 337-348.	8.2	35
52	Inactive aluminate spinels as precursors for design of CPO and reforming catalysts. <i>Applied Catalysis A: General</i> , 2010, 383, 119-127.	4.3	35
53	Electron Microscopy Study of γ -Al ₂ O ₃ Supported Cobalt Fischer-Tropsch Synthesis Catalysts. <i>Catalysis Letters</i> , 2008, 126, 224-230.	2.6	33
54	Boosted Supercapacitive Energy with High Rate Capability of a Carbon Framework with Hierarchical Pore Structure in an Ionic Liquid. <i>ChemSusChem</i> , 2016, 9, 3093-3101.	6.8	33

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55	Ni catalysts for sorption enhanced steam methane reforming. <i>Topics in Catalysis</i> , 2007, 45, 3-8.	2.8	32
56	Surface characterization of Pd/Ag23wt% membranes after different thermal treatments. <i>Applied Surface Science</i> , 2010, 256, 6121-6132.	6.1	32
57	Platinum incorporated into the SBA-15 mesostructure via deposition-precipitation method: Pt nanoparticle size estimation and catalytic testing. <i>Topics in Catalysis</i> , 2007, 45, 93-99.	2.8	31
58	Structural properties of the nanoscopic Al ₈₅ Ti ₁₅ solid solution observed in the hydrogen-cycled NaAlH ₄ + 0.1TiCl ₃ system. <i>Acta Materialia</i> , 2008, 56, 4691-4701.	7.9	30
59	TEM characterization of pure and transition metal enhanced NaAlH ₄ . <i>Journal of Alloys and Compounds</i> , 2011, 509, 281-289.	5.5	30
60	X-ray absorption, X-ray diffraction and electron microscopy study of spent cobalt based catalyst in semi-commercial scale Fischer-Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2014, 479, 59-69.	4.3	30
61	Nanocrystalline Cu-Ce-Zr mixed oxide catalysts for water-gas shift: Carbon nanofibers as dispersing agent for the mixed oxide particles. <i>Applied Catalysis B: Environmental</i> , 2007, 71, 7-15.	20.2	29
62	Coaxial Carbon/Metal Oxide/Aligned Carbon Nanotube Arrays as High-Performance Anodes for Lithium Ion Batteries. <i>ChemSusChem</i> , 2014, 7, 1335-1346.	6.8	29
63	Performance and SEM characterization of Rh impregnated microchannel reactors in the catalytic partial oxidation of methane and propane. <i>Chemical Engineering Journal</i> , 2008, 144, 489-501.	12.7	28
64	Ethene production by oxidative dehydrogenation of ethane at short contact times over Pt-Sn coated monoliths. <i>Applied Catalysis A: General</i> , 2010, 378, 1-10.	4.3	28
65	Hydrogen Absorption Kinetics of the Transition-Metal-Chloride-Enhanced NaAlH ₄ System. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14205-14217.	3.1	28
66	Combined X-ray and Raman Studies on the Effect of Cobalt Additives on the Decomposition of Magnesium Borohydride. <i>Energies</i> , 2015, 8, 9173-9190.	3.1	28
67	Further insights into methane and higher hydrocarbons formation over cobalt-based catalysts with γ -Al ₂ O ₃ , δ -Al ₂ O ₃ and TiO ₂ as support materials. <i>Journal of Catalysis</i> , 2017, 352, 515-531.	6.2	28
68	Active sites for the oxygen reduction reaction in nitrogen-doped carbon nanofibers. <i>Catalysis Today</i> , 2020, 357, 248-258.	4.4	28
69	Transmission electron microscopic observations of deformation and microtwinning in a synthetic diamond compact. <i>Journal of Materials Science Letters</i> , 1983, 2, 785-788.	0.5	27
70	The relationship between platelet size and the frequency of the B ² ™ infrared absorption peak in type Ia diamond. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1990, 62, 115-128.	0.6	27
71	Catalytic membrane structure influence on the pressure effects in an interfacial contactor catalytic membrane reactor applied to wet air oxidation. <i>Catalysis Today</i> , 2005, 104, 329-335.	4.4	27
72	TaNx coatings deposited by HPPMS on SS316L bipolar plates for polymer electrolyte membrane fuel cells: Correlation between corrosion current, contact resistance and barrier oxide film formation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3259-3270.	7.1	27

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73	Preparation and characterization of nanocrystalline, high-surface area CuCeZr mixed oxide catalysts from homogeneous co-precipitation. <i>Chemical Engineering Journal</i> , 2008, 137, 686-702.	12.7	26
74	Multilayer Corrosion of Aluminum Activated by Lead. <i>Journal of the Electrochemical Society</i> , 2010, 157, C313.	2.9	26
75	Importance of Molybdenum on Irradiation-Assisted Stress Corrosion Cracking in Austenitic Stainless Steels. <i>Corrosion</i> , 1998, 54, 48-60.	1.1	25
76	Comparative study of the δ -phase in a 6xxx Al alloy by 3DAP and HRTEM. <i>Surface and Interface Analysis</i> , 2007, 39, 189-194.	1.8	24
77	Electron microscopy studies of lithium aluminium hydrides. <i>Journal of Alloys and Compounds</i> , 2005, 395, 307-312.	5.5	23
78	A Model for High-Temperature Pitting Corrosion in Nickel-Based Alloys Involving Internal Precipitation of Carbides, Oxides, and Graphite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 1258-1276.	2.2	23
79	Microstructural studies of self-supported (1.5×10^{-4} m) Pd/23 wt% Ag hydrogen separation membranes subjected to different heat treatments. <i>Journal of Materials Science</i> , 2009, 44, 4429-4442.	3.7	23
80	Study of defects and impurities in multicrystalline silicon grown from metallurgical silicon feedstock. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 159-160, 274-277.	3.5	23
81	Characteristics of diamond regrowth in a synthetic diamond compact. <i>Journal of Materials Science</i> , 1988, 23, 1829-1834.	3.7	22
82	Microstructure and the influence of spontaneous strain in LaCoO ₃ , La _{0.8} Sr _{0.2} CoO ₃ and La _{0.8} Ca _{0.2} CoO ₃ . <i>Journal of Materials Science</i> , 2000, 35, 4251-4260.	3.7	22
83	Wet air oxidation in a catalytic membrane reactor: Model and industrial wastewaters in single tubes and multichannel contactors. <i>Applied Catalysis B: Environmental</i> , 2007, 69, 196-206.	20.2	22
84	Titanium uptake and incorporation into silica nanostructures by the diatom <i>Pinnularia</i> sp. (Bacillariophyceae). <i>Journal of Applied Phycology</i> , 2015, 27, 777-786.	2.8	22
85	Performance of catalytic membrane reactor in multiphase reactions. <i>Chemical Engineering Science</i> , 2004, 59, 5363-5372.	3.8	21
86	Analytical Electron Microscopy Studies of Lithium Aluminum Hydrides with Ti- and V-Based Additives. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4350-4356.	2.6	21
87	Z-contrast imaging of the arrangement of Cu in precipitates in 6XXX-series aluminium alloys. <i>Philosophical Magazine Letters</i> , 2006, 86, 589-597.	1.2	21
88	Nature of Segregated Lead on Electrochemically Active AlPb Model Alloy. <i>Journal of the Electrochemical Society</i> , 2007, 154, C28.	2.9	21
89	Surface Segregation of Trace Element Bismuth during Heat Treatment of Aluminum. <i>Journal of the Electrochemical Society</i> , 2012, 159, C137-C145.	2.9	21
90	Hydrogen absorption kinetics and structural features of NaAlH ₄ enhanced with transition-metal and Ti-based nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15175-15186.	7.1	21

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91	Characterization of nanostructured GaSb: comparison between large-area optical and local direct microscopic techniques. <i>Applied Optics</i> , 2008, 47, 5130.	2.1	20
92	Nanoconfinement of Ni clusters towards a high sintering resistance of steam methane reforming catalysts. <i>Catalysis Science and Technology</i> , 2012, 2, 2476.	4.1	20
93	Formation of ZnO Nanosheets Grown by Catalyst-Assisted Pulsed Laser Deposition. <i>Crystal Growth and Design</i> , 2011, 11, 5298-5304.	3.0	19
94	ZnO@Carbon Nanotube Composite Supported Nickel Catalysts for Selective Conversion of Cellulose into Vicinal Diols. <i>ChemCatChem</i> , 2015, 7, 2991-2999.	3.7	19
95	Progress in Understanding Initiation of Intergranular Corrosion on AA6005 Aluminum Alloy with Low Copper Content. <i>Journal of the Electrochemical Society</i> , 2019, 166, C3114-C3123.	2.9	19
96	Transmission electron microscopy study of hydrogen defect formation at extended defects in hydrogen plasma treated multicrystalline silicon. <i>Journal of Applied Physics</i> , 2009, 105, 033506.	2.5	18
97	The location of Ti containing phases after the completion of the NaAlH ₄ +xTiCl ₃ milling process. <i>Journal of Alloys and Compounds</i> , 2012, 513, 597-605.	5.5	18
98	Microstructural heterogeneity in hexagonal close-packed pure Ti processed by high-pressure torsion. <i>Journal of Materials Science</i> , 2012, 47, 4838-4844.	3.7	18
99	Hydrodeoxygenation of phenolics in liquid phase over supported MoO ₃ and carburized analogues. <i>Biomass Conversion and Biorefinery</i> , 2017, 7, 343-359.	4.6	18
100	A transmission electron microscope study of a cubic boron nitride-based compact material with AlN and AlB ₂ binder phases. <i>Journal of Materials Science</i> , 1987, 22, 4093-4102.	3.7	17
101	Nitrogen-doped Carbon Nanofibers for the Oxygen Reduction Reaction: Importance of the Iron Growth Catalyst Phase. <i>ChemCatChem</i> , 2017, 9, 1663-1674.	3.7	17
102	Newly observed microscopic planar defects on {111} in natural diamond. <i>Philosophical Magazine Letters</i> , 1987, 55, 209-213.	1.2	16
103	The effect of pre-bond moisture on epoxy-bonded sulphuric acid anodised aluminium. <i>International Journal of Adhesion and Adhesives</i> , 2004, 24, 183-191.	2.9	16
104	The effect of platinum in Cu-Ce-Zr and Cu-Zn-Al mixed oxide catalysts for water-gas shift. <i>Applied Catalysis A: General</i> , 2008, 349, 46-54.	4.3	16
105	Oxide Coating of Alumina Nanoporous Structure Using ALD to Produce Highly Porous Spinel. <i>Chemical Vapor Deposition</i> , 2012, 18, 315-325.	1.3	16
106	Chemical stability and H ₂ flux degradation of cercer membranes based on lanthanum tungstate and lanthanum chromite. <i>Journal of Membrane Science</i> , 2016, 503, 42-47.	8.2	16
107	Novel Fe/Mn@CNTs nanocomposites as catalysts for direct production of lower olefins from syngas. <i>AIChE Journal</i> , 2017, 63, 154-161.	3.6	16
108	Methane Activation on Bimetallic Catalysts: Properties and Functions of Surface Ni ^δ Ag Alloy. <i>ChemCatChem</i> , 2019, 11, 3401-3412.	3.7	16

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109	Amorphous Al _{1-x} Ti _x , Al _{1-x} V _x , and Al _{1-x} Fe _x phases in the hydrogen cycled TiCl ₃ , VCl ₃ and FeCl ₃ enhanced NaAlH ₄ systems. <i>Journal of Alloys and Compounds</i> , 2012, 521, 112-120.	5.5	15
110	Functionality of the nanoscopic crystalline Al/amorphous Al ₅₀ Ti ₅₀ surface embedded composite observed in the NaAlH ₄ +xTiCl ₃ system after milling. <i>Journal of Alloys and Compounds</i> , 2012, 514, 163-169.	5.5	14
111	Surface segregation of tin by heat treatment of dilute aluminium-tin alloys. <i>Corrosion Science</i> , 2013, 68, 204-213.	6.6	14
112	Charging effects and surface potential variations of Cu-based nanowires. <i>Thin Solid Films</i> , 2016, 601, 45-53.	1.8	14
113	Synthesis and Characterization of Gold Nanoparticle-Functionalized Ordered Mesoporous Materials. <i>Journal of Dispersion Science and Technology</i> , 2005, 26, 729-744.	2.4	13
114	Significance of Low Copper Content on Grain Boundary Nanostructure and Intergranular Corrosion of AlMgSi(Cu) Model Alloys. <i>Materials Science Forum</i> , 2006, 519-521, 667-672.	0.3	13
115	Initiation of Metal Dusting Corrosion in Conversion of Natural Gas to Syngas Studied under Industrially Relevant Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1794-1803.	3.7	13
116	Optical response of rectangular array of elliptical plasmonic particles on glass revealed by Mueller matrix ellipsometry and finite element modeling. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, E78.	2.1	13
117	Evolution of hydrogen induced defects during annealing of plasma treated Czochralski silicon. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 253, 176-181.	1.4	12
118	The Structure and Impurities of Hard DC Anodic Layers on AA6060 Aluminium Alloy. <i>Journal of Adhesion</i> , 2008, 84, 543-561.	3.0	12
119	On nanoscale Al precipitates forming in eutectic Si particles in Al-Si-Mg cast alloys. <i>Scripta Materialia</i> , 2009, 61, 500-503.	5.2	12
120	Observations of nanoscopic, face centered cubic Ti and TiH _x . <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 787-793.	2.3	12
121	A structural review of nanoscopic Al _{1-x} TM _x phase formation in the TMCl _n enhanced NaAlH ₄ system. <i>Journal of Alloys and Compounds</i> , 2012, 527, 16-24.	5.5	12
122	Combining HAADF STEM tomography and electron diffraction for studies of δ -Al(Fe,Mn)Si dispersoids in 3xxx aluminium alloys. <i>Philosophical Magazine</i> , 2015, 95, 744-758.	1.6	12
123	Copper enriched by dealloying as external cathode in intergranular corrosion of aluminium alloy AA6005. <i>Corrosion Science</i> , 2019, 158, 108090.	6.6	12
124	Effect of Trace Elements Lead and Tin on Anodic Activation of AA8006 Aluminum Sheet. <i>Journal of the Electrochemical Society</i> , 2013, 160, C542-C552.	2.9	11
125	Investigation of Grain Boundaries in an Al-Mg-Si-Cu Alloy. <i>Materials Science Forum</i> , 0, 794-796, 951-956.	0.3	11
126	Surface Segregation of Indium by Heat Treatment of Aluminium. <i>Materials Science Forum</i> , 2006, 519-521, 673-678.	0.3	10

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127	Hydrogen Oxidation Catalyzed by Pt Supported on Carbon Nanofibers with Different Graphite Sheet Orientations. Topics in Catalysis, 2009, 52, 664-674.	2.8	10
128	ALD Applied to Conformal Coating of Nanoporous γ -Alumina: Spinel Formation and Luminescence Induced by Europium Doping. Journal of the Electrochemical Society, 2012, 159, P45-P49.	2.9	10
129	Pd/CeO ₂ catalysts as powder in a fixed-bed reactor and as coating in a stacked foil microreactor for the methanol synthesis. Catalysis Today, 2016, 273, 25-33.	4.4	10
130	The microstructure of ultrahard material compacts studied by transmission electron microscopy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1988, 105-106, 549-553.	5.6	9
131	The evolution and oxidation of carbides in an Alloy 601 exposed to long term high temperature corrosion conditions. Corrosion Science, 2010, 52, 4001-4010.	6.6	9
132	Effect of Magnesium on Segregation of Trace Element Lead and Anodic Activation in Aluminum Alloys. Journal of the Electrochemical Society, 2008, 155, C1.	2.9	8
133	ALD Applied to Conformal Coating of Nanoporous γ -Alumina: Spinel Formation and Luminescence Induced by Europium Doping. ECS Transactions, 2011, 41, 123-130.	0.5	8
134	Effects of metal dusting relevant exposures of alloy 601 surfaces on carbon formation and oxide development. Catalysis Today, 2021, 369, 48-61.	4.4	8
135	Characterization of thin and ultrathin transparent conducting oxide (TCO) films and TCO/Si interfaces with XPS, TEM and <i>ab initio</i> modeling. Surface and Interface Analysis, 2010, 42, 874-877.	1.8	7
136	Microscale investigations of the metal-dusting corrosion mechanism on mild steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 345-354.	2.2	6
137	Effect of Heat Treatment on Grain Boundary Nanostructure and Corrosion of Low Copper AlMgSi Alloy. ECS Transactions, 2006, 3, 167-172.	0.5	6
138	Silicon Whisker Growth Using Hot Filament Reactor with Hydrogen as Source Gas. Japanese Journal of Applied Physics, 2008, 47, 4807-4809.	1.5	6
139	Crystalline Al _{1-x} Ti _x phases in the hydrogen cycled NaAlH ₄ +0.02TiCl ₃ system. Philosophical Magazine, 2013, 93, 1080-1094.	1.6	6
140	The Temperature Evolution of the Hydrogen Plasma Induced Structural Defects in Crystalline Silicon. Solid State Phenomena, 2007, 131-133, 315-320.	0.3	5
141	EBIC, EBSD and TEM study of grain boundaries in multicrystalline silicon cast from metallurgical feedstock. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	5
142	Surface Characterization of Heat Treated AlPbCu Model Alloys. Journal of the Electrochemical Society, 2011, 158, C178.	2.9	5
143	Metal Dusting Corrosion Initiation in Conversion of Natural Gas to Synthesis Gas. Energy Procedia, 2012, 26, 125-134.	1.8	5
144	Study of a platelet-free infilling of a crack in natural diamond: evidence for a late growth event. Journal of Crystal Growth, 1992, 116, 225-234.	1.5	4

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145	Observations of changing fine structure in nanoscale EELS analysis of grain boundaries in stainless steels. <i>Journal of Microscopy</i> , 1995, 180, 313-325.	1.8	4
146	Decoding Atomic-Level Structures of the Interface between Pt Sub-nanocrystals and Nanostructured Carbon. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7166-7178.	3.1	4
147	Large $\sim 110^\circ$ -segmented helical dislocations in natural diamond. <i>Philosophical Magazine Letters</i> , 1992, 65, 159-165.	1.2	3
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