

# Joachim Mayer

## List of Publications by Year in descending order

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382  
papers

10,599  
citations

31976

53  
h-index

53230

85  
g-index

398  
all docs

398  
docs citations

398  
times ranked

11526  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of austenite growth during intercritical annealing in medium manganese steels. Scripta Materialia, 2022, 206, 114228.	5.2	27
2	Phase formation and performance of solid state reactive sintered $\text{Ce}_{0.8}\text{Gd}_{0.2}\text{O}_{2\lambda}$ $\text{FeCo}_2\text{O}_4$ composites. Journal of Materials Chemistry A, 2022, 10, 2412-2420.	10.3	7
3	Mechanical properties of cold sintered ZnO investigated by nanoindentation and micro-pillar testing. Journal of the European Ceramic Society, 2022, 42, 512-524.	5.7	16
4	Adjustment of chemical composition with dissimilar filler wire in 1.4301 austenitic stainless steel to influence residual stress in laser beam welds. Journal of Advanced Joining Processes, 2022, 5, 100081.	2.7	5
5	Tuning the ceria interfaces inside the dual phase oxygen transport membranes. Acta Materialia, 2022, 226, 117603.	7.9	3
6	<i>Operando</i> transmission electron microscopy of battery cycling: thickness dependent breaking of $\text{TiO}_2$ coating on $\text{Si/SiO}_2$ nanoparticles. Chemical Communications, 2022, 58, 3130-3133.	4.1	2
7	A Study on Early Stages of White Etching Crack Formation under Full Lubrication Conditions. Lubricants, 2022, 10, 24.	2.9	9
8	Cation-Exchange Method Enables Uniform Iridium Oxide Nanospheres for Oxygen Evolution Reaction. ACS Applied Nano Materials, 2022, 5, 4062-4071.	5.0	7
9	Cutting-edge nano-LED technology. Journal of Applied Physics, 2022, 131, .	2.5	15
10	Simulation of the Fatigue Crack Initiation in SAE 52100 Martensitic Hardened Bearing Steel during Rolling Contact. Lubricants, 2022, 10, 62.	2.9	11
11	White etching bands formation mechanisms due to rolling contact fatigue. Acta Materialia, 2022, 232, 117932.	7.9	18
12	Proximity-induced superconductivity in $(\text{Bi}_{1-x}\text{Sbx})_2\text{Te}_3$ topological-insulator nanowires. Communications Materials, 2022, 3, .	6.9	10
13	Progress on Emerging Ferroelectric Materials for Energy Harvesting, Storage and Conversion. Advanced Energy Materials, 2022, 12, .	19.5	45
14	The in situ generated emerging phase inside dual phase oxygen transport membranes. Acta Materialia, 2022, 234, 118034.	7.9	3
15	Process Signatures – Knowledge-based approach towards function-oriented manufacturing. Procedia CIRP, 2022, 108, 624-629.	1.9	5
16	Residual Stress Reduction with the LTT Effect in Low Carbon Manganese-Steel through Chemical Composition Manipulation Using Dissimilar Filler Material in Laser Beam Welding. Metals, 2022, 12, 911.	2.3	2
17	Formation of White Etching Cracks under electrical current flow - Influence of load, slip and polarity. Wear, 2022, 504-505, 204394.	3.1	6
18	Progress on Emerging Ferroelectric Materials for Energy Harvesting, Storage and Conversion (Adv.) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50	19.5	3

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19	DNA introduces an independent temperature responsiveness to thermosensitive microgels and enables switchable plasmon coupling as well as controlled uptake and release. <i>Nanoscale</i> , 2021, 13, 2875-2882.	5.6	4
20	Enhancing the high temperature oxidation behavior of Cr <sub>2</sub> AlC coatings by reducing grain boundary nanoporosity. <i>Materials Research Letters</i> , 2021, 9, 127-133.	8.7	13
21	Combined near-ambient pressure photoelectron spectroscopy and temporal analysis of products study of CH <sub>4</sub> oxidation on Pd/ <sup>3</sup> -Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Catalysis Today</i> , 2021, 360, 444-453.	4.4	4
22	In Situ Observation of Point-Defect-Induced Unit-Cell-Wise Energy Storage Pathway in Antiferroelectric PbZrO <sub>3</sub> . <i>Advanced Functional Materials</i> , 2021, 31, 2008609.	14.9	18
23	Conditioning nano-LEDs in arrays by laser-micro-annealing: The key to their performance improvement. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	16
24	Composition/Performance Evaluation of Lean NO <sub>x</sub> Trap Catalysts for Coupling with SCR Technology. <i>ChemCatChem</i> , 2021, 13, 1787-1805.	3.7	12
25	Atomic Structure and Electron Magnetic Circular Dichroism of Individual Rock Salt Structure Antiphase Boundaries in Spinel Ferrites. <i>Advanced Functional Materials</i> , 2021, 31, 2008306.	14.9	15
26	Multiple polarization orders in individual twinned colloidal nanocrystals of centrosymmetric HfO <sub>2</sub> . <i>Matter</i> , 2021, 4, 986-1000.	10.0	15
27	Nickel Structures as a Template Strategy to Create Shaped Iridium Electrocatalysts for Electrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 13576-13585.	8.0	7
28	Elucidating the Influence of the d-Band Center on the Synthesis of Isobutanol. <i>Catalysts</i> , 2021, 11, 406.	3.5	1
29	Introduction to a special issue on Frontiers of Aberration Corrected Electron Microscopy in honour of Wolfgang Baumeister, Colin Humphreys, John Spence and Knut Urban on the occasion of their 75th, 80th, 75th and 80th birthdays. <i>Ultramicroscopy</i> , 2021, 231, 113290.	1.9	0
30	Turning Low-Nanoscale Intrinsic Silicon Highly Electron-Conductive by SiO <sub>2</sub> Coating. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 20479-20488.	8.0	7
31	Microstructural insights into the coercivity enhancement of grain-boundary-diffusion-processed Tb-treated Nd-Fe-B sintered magnets beyond the core-shell formation mechanism. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158915.	5.5	17
32	Segregation-controlled densification and grain growth in rare earth-doped Y <sub>2</sub> O <sub>3</sub> . <i>Journal of the American Ceramic Society</i> , 2021, 104, 4946-4959.	3.8	12
33	STEM investigations of the influence of copper on alumina scale detachment during in-situ wetting experiments of Al-7Si-0.3Mg alloy with 95Sn-5Cu filler metal. <i>International Journal of Materials Research</i> , 2021, 112, 415-421.	0.3	0
34	Correlating Nanocrystalline Structure with Electronic Properties in 2D Platinum Diselenide. <i>Advanced Functional Materials</i> , 2021, 31, 2102929.	14.9	17
35	A study on the initiation processes of white etching cracks (WECs) in AISI 52100 bearing steel. <i>Wear</i> , 2021, 477, 203864.	3.1	15
36	Photocatalytic-Fenton Process under Simulated Solar Radiation Promoted by a Suitable Catalyst Selection. <i>Catalysts</i> , 2021, 11, 885.	3.5	2

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37	Controlled twinning and martensitic transformation in metastable AISI D3 (X210Cr12) steel by sequential deep rolling and liquid nitrogen cooling. <i>Materials Today Communications</i> , 2021, 28, 102484.	1.9	1
38	Ferroelectric phase-transition frustration near a tricritical composition point. <i>Nature Communications</i> , 2021, 12, 5322.	12.8	18
39	Graphite paradox in Baikal geyserite paleovalley, Russia. <i>American Mineralogist</i> , 2021, 106, 1622-1639.	1.9	2
40	Co-deformation between the metallic matrix and intermetallic phases in a creep-resistant Mg-3.68Al-3.8Ca alloy. <i>Materials and Design</i> , 2021, 210, 110113.	7.0	9
41	Thermal stability of CrAlN/AlCrN nanolaminate coating deposited by hybrid dcMS/HPPMS after heat treatment with continuous-wave laser. <i>Applied Surface Science</i> , 2021, 569, 151024.	6.1	2
42	Structural analyses of a CrN/AlN nanolaminate hard coating after nanoscratch test. <i>Thin Solid Films</i> , 2021, 738, 138964.	1.8	1
43	Temperature dependent partitioning mechanisms and its associated microstructural evolution in a CMnSiAl quenching and partitioning (Q&P) steel. <i>Materials Today Communications</i> , 2021, 29, 102918.	1.9	1
44	Measuring Diffusion Coefficients of the Ceria Phase in a Dual-Phase Oxygen Permeation Membrane Using a Combined Polarization - Kelvin Probe Force Microscopy Method. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1853-1853.	0.0	0
45	Microstructural and chemical surface and rim zone changes of ferrite-perlite 42CrMo4 steel after electrochemical machining. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2021, 52, 1214-1229.	0.9	0
46	Migration Kinetics of Surface Ions in Oxygen-Deficient Perovskite During Topotactic Transitions. <i>Small</i> , 2021, 17, e2104356.	10.0	6
47	Structural Phase Transition and In-Situ Energy Storage Pathway in Nonpolar Materials: A Review. <i>Materials</i> , 2021, 14, 7854.	2.9	15
48	Migration Kinetics of Surface Ions in Oxygen-Deficient Perovskite During Topotactic Transitions (Small 51/2021). <i>Small</i> , 2021, 17, .	10.0	0
49	Measurement of polarization effects in dual-phase ceria-based oxygen permeation membranes using Kelvin probe force microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2021, 12, 1380-1391.	2.8	1
50	Model-based design and synthesis of ferrocene containing microgels. <i>Polymer Chemistry</i> , 2020, 11, 315-325.	3.9	18
51	Preferred selenium incorporation and unexpected interlayer bonding in the layered structure of Sb <sub>2</sub> Te <sub>3</sub> Se. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2020, 75, 41-50.	0.7	2
52	The effect of cryolite on grinding of stainless steel. <i>Tribology International</i> , 2020, 143, 106021.	5.9	1
53	Effect of threading strain from the interface between P-GaN and an annealed ITO transparent conducting layer to InGaN/GaN multiple quantum wells. <i>Vacuum</i> , 2020, 172, 109035.	3.5	2
54	Ethanol Dehydrogenation: A Reaction Path Study by Means of Temporal Analysis of Products. <i>Catalysts</i> , 2020, 10, 1151.	3.5	11

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55	Laser micro annealing conditioning for the suppression of statistical scatter in freestanding Sb <sub>2</sub> Te <sub>3</sub> nanowire resistance. <i>FlatChem</i> , 2020, 21, 100164.	5.6	18
56	Combined $\delta$ -carbide precipitation and recovery enables ultra-high strength and ductility in light-weight steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 795, 139928.	5.6	18
57	Antiphase Boundaries Constitute Fast Cation Diffusion Paths in SrTiO <sub>3</sub> Memristive Devices. <i>Advanced Functional Materials</i> , 2020, 30, 2004118.	14.9	19
58	Direction observation of the grain boundary segregation in molybdenum substituted lanthanum tungstate membranes. <i>Nanoscale</i> , 2020, 12, 17841-17848.	5.6	6
59	Operando Transmission Electron Microscopy Study of All-Solid-State Battery Interface: Redistribution of Lithium among Interconnected Particles. <i>ACS Applied Energy Materials</i> , 2020, 3, 5101-5106.	5.1	14
60	Influence of direct electric current on wetting behavior during brazing. <i>Frontiers of Mechanical Engineering</i> , 2020, 15, 496-503.	4.3	1
61	Influence of process chains with thermal, mechanical and thermo-mechanical impact on the surface modifications of a grind-strengthened 42CrMo4 steel. <i>Procedia CIRP</i> , 2020, 87, 426-431.	1.9	4
62	A Nanoscale Study of Thermally Grown Chromia on High-Cr Ferritic Steels and Associated Oxidation Mechanisms. <i>Journal of the Electrochemical Society</i> , 2020, 167, 061502.	2.9	12
63	Energy Storage: An Unconventional Transient Phase with Cycloidal Order of Polarization in Energy-Storage Antiferroelectric PbZrO <sub>3</sub> (Adv. Mater. 9/2020). <i>Advanced Materials</i> , 2020, 32, 2070069.	21.0	2
64	Electron microscopic characterization of surface zones thermo-chemically modified by electrical discharge machining. <i>Journal of Materials Processing Technology</i> , 2020, 280, 116596.	6.3	10
65	An Unconventional Transient Phase with Cycloidal Order of Polarization in Energy-Storage Antiferroelectric PbZrO <sub>3</sub> . <i>Advanced Materials</i> , 2020, 32, e1907208.	21.0	54
66	YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> films with Ba <sub>2</sub> Y(Nb,Ta)O <sub>6</sub> nanoinclusions for high-field applications. <i>Superconductor Science and Technology</i> , 2020, 33, 044010.	3.5	15
67	Morphology-controllable synthesis of LiCoPO <sub>4</sub> and its influence on electrochemical performance for high-voltage lithium ion batteries. <i>Journal of Power Sources</i> , 2020, 450, 227726.	7.8	19
68	Nano-LED induced chemical reactions for structuring processes. <i>Nanoscale Advances</i> , 2020, 2, 5421-5427.	4.6	9
69	Novel self-epitaxy for inducing superconductivity in the topological insulator $\text{Bi}_2\text{Te}_3$ . <i>Physical Review Materials</i> , 2020, 4, .		
70	Local crystallographic shear structures in <i>a</i> [201] extended mixed dislocations of SrTiO <sub>3</sub> unraveled by atomic-scale imaging using transmission electron microscopy and spectroscopy. <i>Faraday Discussions</i> , 2019, 213, 245-258.	3.2	10
71	Effect of Nb Addition on Oxidation Mechanisms of High Cr Ferritic Steel in Ar-H <sub>2</sub> -H <sub>2</sub> O. <i>Oxidation of Metals</i> , 2019, 92, 471-491.	2.1	15
72	Size-Tailored Biocompatible FePt Nanoparticles for Dual T <sub>1</sub> /T <sub>2</sub> Magnetic Resonance Imaging Contrast Enhancement. <i>Langmuir</i> , 2019, 35, 10424-10434.	3.5	13

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73	Impact of Bonding on the Stacking Defects in Layered Chalcogenides. <i>Advanced Functional Materials</i> , 2019, 29, 1902332.	14.9	21
74	Investigation of the Li <sup>+</sup> /Co antisite exchange in Fe-substituted LiCoPO <sub>4</sub> cathode for high-voltage lithium ion batteries. <i>Energy Storage Materials</i> , 2019, 22, 138-146.	18.0	15
75	Thermally induced changes in microstructure and reactivity of biogenic and fossil fuel particles. <i>Applied Energy</i> , 2019, 254, 113607.	10.1	8
76	Processing-induced secondary phase formation in Mo-substituted lanthanum tungstate membranes. <i>Acta Materialia</i> , 2019, 180, 35-41.	7.9	5
77	Metallic filamentary conduction in valence change-based resistive switching devices: the case of TaO <sub>x</sub> thin film with $x \approx 1$ . <i>Nanoscale</i> , 2019, 11, 16978-16990.	5.6	16
78	Oxygen diffusion in amorphous and partially crystalline gallium oxide. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4268-4275.	2.8	10
79	Cargo shuttling by electrochemical switching of core-shell microgels obtained by a facile one-shot polymerization. <i>Chemical Science</i> , 2019, 10, 1844-1856.	7.4	38
80	Nanoscale X-ray imaging of ageing in automotive lithium ion battery cells. <i>Journal of Power Sources</i> , 2019, 433, 126631.	7.8	42
81	Crystal structure investigation of La <sub>5.4</sub> W <sub>1.5</sub> Mo <sub>0.1</sub> O <sub>12</sub> for gas separation by high-resolution transmission electron microscopy. <i>Scientific Reports</i> , 2019, 9, 3274.	3.3	6
82	Study of the distribution of a straight CuO nanorod structure inserted in Al-doped ZnO layers for deposition on a flexible substrate. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 055004.	1.5	1
83	Introduction to a special issue on <i>Frontiers of Aberration Corrected Electron Microscopy</i> in honour of Christian Colliex, Archie Howie and Hannes Lichte on the occasion of their 75th, 85th and 75th birthdays. <i>Ultramicroscopy</i> , 2019, 203, 1.	1.9	1
84	Nanoscale measurement of giant saturation magnetization in $\text{Fe}^{3+}$ -Fe <sub>16</sub> N <sub>2</sub> by electron energy-loss magnetic chiral dichroism. <i>Ultramicroscopy</i> , 2019, 203, 37-43.	1.9	9
85	The carbonization of polyacrylonitrile-derived electrospun carbon nanofibers studied by <i>in situ</i> transmission electron microscopy. <i>RSC Advances</i> , 2019, 9, 6267-6277.	3.6	35
86	The Impact of Fe Addition on the Electronic Conductivity of Gadolinium Doped Ceria. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, P41-P50.	1.8	6
87	Engineering antiphase boundaries in epitaxial SrTiO <sub>3</sub> to achieve forming free memristive devices. <i>APL Materials</i> , 2019, 7, .	5.1	13
88	On the role of the metal oxide/reactive electrode interface during the forming procedure of valence change ReRAM devices. <i>Nanoscale</i> , 2019, 11, 18201-18208.	5.6	26
89	Electronic Structure Shift of Deeply Nanoscale Silicon by $\text{Si}_x\text{O}_2$ versus $\text{Si}_3$	3.8	10
90	On the origin of vibrational properties of calcium manganate based thermoelectric compounds. <i>Nano Energy</i> , 2018, 47, 451-462.	16.0	19

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91	Electrically controlled transformation of memristive titanates into mesoporous titanium oxides via incongruent sublimation. <i>Scientific Reports</i> , 2018, 8, 3774.	3.3	12
92	Understanding electron magnetic circular dichroism in a transition potential approach. <i>Physical Review B</i> , 2018, 97, .	3.2	3
93	Atomic scale imaging of magnetic circular dichroism by achromatic electron microscopy. <i>Nature Materials</i> , 2018, 17, 221-225.	27.5	60
94	Efficient and accurate two-scale FE-FFT-based prediction of the effective material behavior of elasto-viscoplastic polycrystals. <i>Computational Mechanics</i> , 2018, 61, 751-764.	4.0	49
95	Efficient Multiscale FE-FFT-Based Modeling and Simulation of Macroscopic Deformation Processes with Non-linear Heterogeneous Microstructures. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2018, , 129-146.	2.2	3
96	Grind hardening: Correlations between surface modifications and applied internal loads. <i>Procedia CIRP</i> , 2018, 71, 341-347.	1.9	6
97	Dielectric Properties and Ion Transport in Layered MoS <sub>2</sub> Grown by Vapor-Phase Sulfurization for Potential Applications in Nanoelectronics. <i>ACS Applied Nano Materials</i> , 2018, 1, 6197-6204.	5.0	25
98	Intrinsic ultrasmall nanoscale silicon turns n-/p-type with SiO <sub>2</sub> /Si <sub>3</sub> N <sub>4</sub> -coating. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2255-2264.	2.8	15
99	Plasma Polymerization of TEMPO Yields Coatings Containing Stable Nitroxide Radicals for Controlling Interactions with Prokaryotic and Eukaryotic Cells. <i>ACS Applied Nano Materials</i> , 2018, 1, 6587-6595.	5.0	12
100	Nanospectroscopy of Infrared Phonon Resonance Enables Local Quantification of Electronic Properties in Doped SrTiO <sub>3</sub> Ceramics. <i>Advanced Functional Materials</i> , 2018, 28, 1802834.	14.9	32
101	Formation of white etching areas in SAE 52100 bearing steel under rolling contact fatigue – Influence of diffusible hydrogen. <i>Wear</i> , 2018, 414-415, 352-365.	3.1	36
102	Analysis of the effects of different carbon coating strategies on structure and electrochemical behavior of LiCoPO <sub>4</sub> material as a high-voltage cathode electrode for lithium ion batteries. <i>Electrochimica Acta</i> , 2018, 279, 108-117.	5.2	19
103	In situ investigation of production processes in a large chamber scanning electron microscope. <i>Ultramicroscopy</i> , 2018, 193, 151-158.	1.9	6
104	Interfaces between Model Co-W-C Alloys with Various Carbon Contents and Tungsten Carbide. <i>Materials</i> , 2018, 11, 404.	2.9	10
105	On Oxidation Resistance Mechanisms at 1273 K of Tungsten-Based Alloys Containing Chromium and Yttria. <i>Metals</i> , 2018, 8, 488.	2.3	16
106	Controlled Crystal Growth of Indium Selenide, In <sub>2</sub> Se <sub>3</sub> , and the Crystal Structures of In <sub>2</sub> Se <sub>3</sub> . <i>Inorganic Chemistry</i> , 2018, 57, 11775-11781.	4.0	97
107	Oxygen Exchange Processes between Oxide Memristive Devices and Water Molecules. <i>Advanced Materials</i> , 2018, 30, e1800957.	21.0	57
108	Effect of cation ratio and order on magnetic circular dichroism in the double perovskite Sr <sub>2</sub> Fe <sub>1+Re</sub> 1-O <sub>6</sub> . <i>Ultramicroscopy</i> , 2018, 193, 137-142.	1.9	11

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109	Tetragonal fcc-Fe induced by $\hat{\nu}$ -carbide precipitates: Atomic scale insights from correlative electron microscopy, atom probe tomography, and density functional theory. <i>Physical Review Materials</i> , 2018, 2, .	2.4	14
110	Crystal Structure Investigation of Ferritic 73Fe24Cr2Si0.8Mn0.1Ni Steel for Multi-purpose Structural Material Applications. <i>International Journal of Technology</i> , 2018, 9, 78.	0.8	2
111	Effects of dynamic diffraction conditions on magnetic parameter determination in a double perovskite Sr2FeMoO6 using electron energy-loss magnetic chiral dichroism. <i>Ultramicroscopy</i> , 2017, 176, 212-217.	1.9	9
112	Electron microscopy investigations of microstructural alterations due to classical Rolling Contact Fatigue (RCF) in martensitic AISI 52100 bearing steel. <i>International Journal of Fatigue</i> , 2017, 98, 142-154.	5.7	77
113	Unexpected Ge-Ge Contacts in the Two-Dimensional Ge <sub>4</sub> Se <sub>3</sub> Te Phase and Analysis of Their Chemical Cause with the Density of Energy (DOE) Function. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10204-10208.	13.8	64
114	Smart tungsten alloys as a material for the first wall of a future fusion power plant. <i>Nuclear Fusion</i> , 2017, 57, 066020.	3.5	40
115	Facile Screening of Various Micellar Morphologies by Blending Miktoarm Stars and Diblock Copolymers. <i>ACS Macro Letters</i> , 2017, 6, 711-715.	4.8	23
116	Nanometre-scale 3D defects in Cr2AlC thin films. <i>Scientific Reports</i> , 2017, 7, 984.	3.3	5
117	Novel hardmetals with nano-grain reinforced binder for hard-facings. <i>International Journal of Refractory Metals and Hard Materials</i> , 2017, 67, 98-104.	3.8	6
118	Properties of Cr-Ca-Al2O3 Deposits Prepared on a Cu Substrate Using Cr <sup>3+</sup> -Based Plating Baths. <i>Powder Metallurgy and Metal Ceramics</i> , 2017, 55, 596-602.	0.8	3
119	Microstructural changes in White Etching Cracks (WECs) and their relationship with those in Dark Etching Region (DER) and White Etching Bands (WEBs) due to Rolling Contact Fatigue (RCF). <i>International Journal of Fatigue</i> , 2017, 100, 148-158.	5.7	72
120	Nanosized Conducting Filaments Formed by Atomic-Scale Defects in Redox-Based Resistive Switching Memories. <i>Chemistry of Materials</i> , 2017, 29, 3164-3173.	6.7	70
121	Hydrophobic superparamagnetic FePt nanoparticles in hydrophilic poly(N-vinylcaprolactam) microgels: a new multifunctional hybrid system. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1284-1292.	5.8	33
122	Introduction to a special issue on Frontiers of Aberration Corrected Electron Microscopy in honour of Robert Sinclair and Nestor J. Zaluzec on the occasion of their 70th and 65th birthdays. <i>Ultramicroscopy</i> , 2017, 176, 1.	1.9	0
123	Experimental and Theoretical Understanding of Nitrogen-Doping-Induced Strong Metal-Support Interactions in Pd/TiO <sub>2</sub> Catalysts for Nitrobenzene Hydrogenation. <i>ACS Catalysis</i> , 2017, 7, 1197-1206.	11.2	138
124	Nanostructure of pseudomonocrystalline graphite studied by nanoimaging of electrical properties in combination with other techniques. <i>Carbon</i> , 2017, 114, 724-730.	10.3	2
125	Plastic deformation behavior of nanostructured CrN/AlN multilayer coatings deposited by hybrid dcMS/HPPMS. <i>Surface and Coatings Technology</i> , 2017, 332, 253-261.	4.8	41
126	Formation of the reaction zone between tin-copper brazing fillers and aluminum-silicon-magnesium alloys: Experiments and thermodynamic analysis. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2017, 48, 1241-1248.	0.9	1



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127	Modelling approach towards tailored grain structure in laser processing. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2017, 48, 1226-1234.	0.9	1
128	Microstructural analysis of germanium modified tin-copper brazing filler metals for transient liquid phase bonding of aluminium. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2017, 48, 1257-1263.	0.9	1
129	Investigation of the effect of rapidly solidified braze ribbons on the microstructure of brazed joints. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 181, 012006.	0.6	0
130	Atomic resolution elemental mapping using energy-filtered imaging scanning transmission electron microscopy with chromatic aberration correction. <i>Ultramicroscopy</i> , 2017, 181, 173-177.	1.9	16
131	Confirmation of tensile residual stress reduction in electron beam welding using low transformation temperature materials (LTT) as localized metallurgical injection " Part 1: Metallographic analysis. <i>Materialpruefung/Materials Testing</i> , 2017, 59, 148-154.	2.2	9
132	In Situ and Cryo (S)TEM Imaging of Internal Microgel Architectures. <i>Microscopy and Microanalysis</i> , 2016, 22, 70-71.	0.4	0
133	Study of subsurface initiation mechanism for white etching crack formation. <i>Materials Science and Technology</i> , 2016, 32, 1170-1178.	1.6	19
134	Effect of Zr Content on the Morphology and Emissivity of Surface Oxide Scales on FeCrAlY Alloys. <i>Advanced Engineering Materials</i> , 2016, 18, 711-720.	3.5	7
135	Atomic Level Characterization of Novel Hardening Mechanisms in High-Mn-Steels. <i>Microscopy and Microanalysis</i> , 2016, 22, 1928-1929.	0.4	1
136	Deposition and characterization of B4C/CeO2 multilayers at 6.x nm extreme ultraviolet wavelengths. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	2
137	Homogeneity and variation of donor doping in Verneuil-grown SrTiO3:Nb single crystals. <i>Scientific Reports</i> , 2016, 6, 32250.	3.3	29
138	<i>Ab initio</i> -guided design of twinning-induced plasticity steels. <i>MRS Bulletin</i> , 2016, 41, 320-325.	3.5	25
139	Nanoionic Resistive Switching Memories: On the Physical Nature of the Dynamic Reset Process. <i>Advanced Electronic Materials</i> , 2016, 2, 1500233.	5.1	141
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