Thierry Epicier

List of Publications by Year
in descending order

167 papers	4,345 citations	117453 34 h-index	133063 59 g-index
175 all docs	175 docs citations	175 times ranked	5625 citing authors

#	Article	IF	Citations
1	Complex precipitation pathways in multicomponent alloys. Nature Materials, 2006, 5, 482-488.	13.3	272
2	Unifying natural and laboratory chemical weathering with interfacial dissolutionâ€“reprecipitation: A study based on the nanometer-scale chemistry of fluidâ€“silicate interfaces. Chemical Geology, 2012, 294-295, 203-216.	1.4	234
3	Toward an Image-Guided Microbeam Radiation Therapy Using Gadolinium-Based Nanoparticles. ACS Nano, 2011, 5, 9566-9574.	7.3	212
4	Tuning the Structure of Platinum Particles on Ceria Inâ€…Situ for Enhancing the Catalytic Performance of Exhaust Gas Catalysts. Angewandte Chemie - International Edition, 2017, 56, 13078-13082.	7.2	201
5	Effects of heat treatments on the microstructure and mechanical properties of a 6061 aluminium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2718-2724.	2.6	179
6	Anti-wear and Friction Reducing Mechanisms of Carbon Nano-onions as Lubricant Additives. Tribology Letters, 2008, 30, 69-80.	1.2	152
7	Neutron powder diffraction studies of transition metal hemicarbides M2C1â^'xâ€"II. In situ high temperature study on W2C1â^'x and Mo2C1â^'x. Acta Metallurgica, 1988, 36, 1903-1921.	2.1	123
8	Evidence of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>L</mml:mi><mml:msub><mml:mn>1</mml:mn><mml:mn>0</mml:mn></mml:msub></mml:mr order in CoPt nanoclusters: Direct observation and magnetic signature. Physical Review B, 2008, 77, .	1.1	116
9	Modeling the aging kinetics of zirconia ceramics. Journal of the European Ceramic Society, 2004, 24, 3483-3489.	2.8	107
10	Highly ductile amorphous oxide at room temperature and high strain rate. Science, 2019, 366, 864-869.	6.0	107
11	Internalization pathways into cancer cells of gadolinium-based radiosensitizing nanoparticles. Biomaterials, 2013, 34, 181-195.	5.7	83
12	Ce3+ dopant segregation in Y3Al5O12 optical ceramics. Optical Materials, 2011, 33, 684-687.	1.7	76
13	Microstructural study of silica-doped zirconia ceramics. Acta Materialia, 2000, 48, 4647-4652.	3.8	65
14	Three-Dimensional Self-Organization in Nanocomposite Layered Systems by Ultrafast Laser Pulses. ACS Nano, 2017, 11, 5031-5040.	7.3	65
15	Neutron powder diffraction studies of transition metal hemicarbides M2C1â^'xâ€"I. Motivation for a study on W2C and Mo2C and experimental background for an in situ investigation at elevated temperature. Acta Metallurgica, 1988, 36, 1891-1901.	2.1	56
16	Improving the Durability of a Biomedicalâ€Grade Zirconia Ceramic by the Addition of Silica. Journal of the American Ceramic Society, 2002, 85, 401-407.	1.9	54
17	EELS study of niobium carbo-nitride nano-precipitates in ferrite. Micron, 2006, 37, 492-502.	1.1	54
18	Chemical 3D tomography of 28nm high K metal gate transistor: STEM XEDS experimental method and results. Micron, 2013, 47, 43-49.	1.1	51

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19	Multi-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>L</mml:mi><mml:msub><mml:mn>1</mml:mn><mml:mn>0</mml:mn></mml:msub></mml:math>Domain CoPt and FePt Nanoparticles Revealed by Electron Microscopy. Physical Review Letters, 2013, 110, 055501.	2.9	51
20	Real time TEM observation of alumina ceramic nano-particles during compression. Journal of the European Ceramic Society, 2012, 32, 2067-2071.	2.8	47
21	Structural and magnetic properties ofCoPtmixed clusters. Physical Review B, 2006, 74, .	1.1	46
22	Direct Visualization and Control of Atomic Mobility at {100} Surfaces of Ceria in the Environmental Transmission Electron Microscope. Nano Letters, 2017, 17, 7652-7658.	4.5	45
23	Spatial distribution of the Yb3+ rare earth ions in Y3Al5O12 and Y2O3 optical ceramics as analyzed by TEM. Journal of Materials Chemistry, 2012, 22, 18221.	6.7	44
24	Correlation between the microstructural evolution of a 6061 aluminium alloy and the evolution of its thermoelectric power. Acta Materialia, 2000, 48, 2911-2924.	3.8	43
25	In Situ Environmental STEM Study of the MoVTe Oxide M1 Phase Catalysts for Ethane Oxidative Dehydrogenation. ACS Catalysis, 2016, 6, 4775-4781.	5.5	43
26	Direct synthesis of Î²-SiC and h-BN coated Î²-SiC nanowires. Solid State Communications, 2002, 124, 157-161.	0.9	42
27	Direct synthesis of amorphous silicon dioxide nanowires and helical self-assembled nanostructures derived therefrom. Journal of Materials Chemistry, 2003, 13, 3058.	6.7	42
28	Quantitative MAS NMR characterization of the LiMn1/2Ni1/2O2 electrode/electrolyte interphase. Solid State Nuclear Magnetic Resonance, 2012, 42, 51-61.	1.5	41
29	Crystallographic structure of vanadium carbide precipitates in a model Fe-C-V steel. Philosophical Magazine, 2008, 88, 31-45.	0.7	39
30	Self-organized growth of metallic nanoparticles in a thin film under homogeneous and continuous-wave light excitation. Journal of Materials Chemistry C, 2014, 2, 6256-6263.	2.7	38
31	Exploiting the dynamic properties of Pt on ceria for low-temperature CO oxidation. Catalysis Science and Technology, 2020, 10, 3904-3917.	2.1	38
32	Evidence of the Inhomogeneous Ce³⁺Distribution across Grain Boundaries in Transparent Polycrystalline Ce³⁺-Doped (Gd,Y)₃Al₅O₁₂Garnet Optical Ceramics. Japanese Journal of Applied Physics, 2010, 49, 022602.	0.8	37
33	Integrated analysis of non-linear loss mechanisms in Yb:YAG ceramics for laser applications. Journal of the European Ceramic Society, 2012, 32, 2273-2281.	2.8	37
34	Fast electron tomography: Applications to beam sensitive samples and in situ TEM or operando environmental TEM studies. Materials Characterization, 2019, 151, 480-495.	1.9	36
35	Precipitation of niobium carbonitrides in ferrite: chemical composition measurements and thermodynamic modelling. Philosophical Magazine Letters, 2007, 87, 645-656.	0.5	35
36	Mechanical behavior law of ceramic nanoparticles from transmission electron microscopy in situ nano-compression tests. Materials Letters, 2014, 119, 107-110.	1.3	34

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37	Measuring the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>L</mml:mi><mml:msub><mml:mn>1</mml:mn><mml:mrow><mml:mn>0</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> order parameter of a single CoPt nanoparticle smaller than 4 nm. Physical Review B, 2011, 83, .	3.8	33
38	Multilayered YAG-Yb:YAG ceramics: manufacture and laser performance. Journal of Materials Chemistry C, 2014, 2, 10138-10148.	2.7	33
39	Understanding the Growth Mechanisms of Ag Nanoparticles Controlled by Plasmon-Induced Charge Transfers in Ag-TiO₂ Films. Journal of Physical Chemistry C, 2015, 119, 9496-9505.	1.5	33
40	Structure and mechanical behavior of nylon-6 fibers filled with organic and mineral nanoparticles. I. Microstructure of spun and drawn fibers. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 3876-3892.	2.4	32
41	Nanostructured thin films from mixed magnetic Coâ€“Ag clusters. Applied Surface Science, 2004, 226, 265-270.	3.1	32
42	Benefits of High-Resolution Electron Microscopy for the Structural Characterization of Mullites. Journal of the American Ceramic Society, 1991, 74, 2359-2366.	1.9	30
43	High resolution electron microscopy study of the cationic disorder in Al₂TiO₅. Journal of Materials Research, 1991, 6, 138-145.	1.2	29
44	Xenon migration in UO2 under irradiation studied by SIMS profilometry. Journal of Nuclear Materials, 2013, 440, 562-567.	1.3	29
45	Fast â€˜Operandoâ€™ electron nanotomography. Journal of Microscopy, 2018, 269, 117-126.	0.8	29
46	Low temperature precipitation kinetics of niobium nitride platelets in Fe. Materials Letters, 2011, 65, 2265-2268.	1.3	27
47	Yb³⁺ Ions Distribution in YAG Nanoceramics Analyzed by Both Optical and TEM-EDX Techniques. Journal of Physical Chemistry C, 2014, 118, 15474-15486.	1.5	27
48	Hollow Beta Zeolite Single Crystals for the Design of Selective Catalysts. Crystal Growth and Design, 2018, 18, 592-596.	1.4	27
49	Atomic imaging of 3:2 mullite. Acta Crystallographica Section A: Foundations and Advances, 1990, 46, 948-962.	0.3	26
50	Microscopic evidence ofC40andC54in(Ti,Ta)Si2:Template mechanism. Physical Review B, 1999, 60, 9165-9168.	1.1	26
51	One-Step Microstructuring of TiO2 and Ag-TiO2 Films by Continuous Wave Laser Processing in the UV and Visible Ranges. Journal of Physical Chemistry C, 2012, 116, 26857-26864.	1.5	26
52	Atomic-scale imaging and analysis of single layer GP zones in a model steel. Journal of Materials Science, 2012, 47, 1567-1571.	1.7	26
53	Investigations of soot combustion on yttria-stabilized zirconia by environmental transmission electron microscopy (ETEM). Applied Catalysis A: General, 2015, 504, 74-80.	2.2	26
54	N-K ELNES study of anisotropy effects in hexagonal AlN. Journal of Microscopy, 2003, 210, 60-65.	0.8	25

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55	Correlation of optical and photoluminescence properties in amorphous SiNx:H thin films deposited by PECVD or UVCVD. Thin Solid Films, 2006, 511-512, 103-107.	0.8	25
56	The Influence of Vanadium on Ferrite and Bainite Formation in a Medium Carbon Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3985-3996.	1.1	22
57	Ordered Arrays of Nanorods Obtained by Solidâ^'Liquid Reactions of LaOCl Crystals. Chemistry of Materials, 2010, 22, 5411-5419.	3.2	21
58	Conjugation of TEM-EDX and optical spectroscopy tools for the localization of Yb³⁺, Er³⁺and Co²⁺dopants in laser glass ceramics composed of MgAl₂O₄spinel nano-crystals embedded in SiO₂glass. Journal of Materials Chemistry C, 2014, 2, 9385-9397.	2.7	21
59	Evaluation of noise and blur effects with SIRT-FISTA-TV reconstruction algorithm: Application to fast environmental transmission electron tomography. Ultramicroscopy, 2018, 189, 109-123.	0.8	21
60	Texture, structure and chemistry of a boron nitride fibre studied by high resolution and analytical TEM. Journal of the European Ceramic Society, 2002, 22, 2415-2425.	2.8	20
61	Crystal orientation mapping via ion channeling: An alternative to EBSD. Ultramicroscopy, 2015, 157, 65-72.	0.8	20
62	Electron Tomography of Plasmonic Au Nanoparticles Dispersed in a TiO₂ Dielectric Matrix. ACS Applied Materials & Interfaces, 2018, 10, 42882-42890.	4.0	20
63	Improved high-temperature mechanical properties of zirconia-doped mullite. Journal of Materials Science Letters, 1990, 9, 1400-1402.	0.5	18
64	HREM study of the chemical nature of twin planes in CuAlO₂. Philosophical Magazine Letters, 1990, 61, 285-291.	0.5	18
65	Effect of cooling rate on the location and chemistry of glassy phases in silica-doped 3Y-TZP ceramics. Journal of the European Ceramic Society, 2005, 25, 875-882.	2.8	18
66	Spectroscopic properties of Yb3+-doped Y3Al5O12 nano-ceramics obtained under different sintering pressures. Radiation Measurements, 2010, 45, 304-306.	0.7	18
67	Direct Structural and Chemical Analysis of Individual Coreâ^'Shell (Pd, Sn) Nanocolloids. Journal of Physical Chemistry B, 2003, 107, 1723-1726.	1.2	17
68	Polarization dependence in ELNES: Influence of probe convergence, collector aperture and electron beam incidence angle. Ultramicroscopy, 2006, 106, 449-460.	0.8	17
69	Characterization of precipitates size distribution: validation of lowâ€voltage STEM. Journal of Microscopy, 2008, 232, 112-122.	0.8	16
70	STEM HAADF electron tomography of palladium nanoparticles with complex shapes. Philosophical Magazine Letters, 2009, 89, 145-153.	0.5	16
71	HAADFâ€STEM characterization and simulation of nanoparticle distributions in an inhomogeneous matrix. Journal of Microscopy, 2017, 266, 60-68.	0.8	16
72	Migration and Growth of Silver Nanoparticles in Zeolite Socony Mobil 5 (ZSM-5) Observed by Environmental Electron Microscopy: Implications for Heterogeneous Catalysis. ACS Applied Nano Materials, 2019, 2, 6452-6461.	2.4	16

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73	Deep learning detection of nanoparticles and multiple object tracking of their dynamic evolution during in situ ETEM studies. Scientific Reports, 2022, 12, 2484.	1.6	16
74	Microstructural characterization of aluminum titanate-based composite materials. Journal of the European Ceramic Society, 1991, 7, 385-396.	2.8	15
75	Compositions of different phases appearing during devitrification of Zr46.75Ti8.25Cu7.5Ni10Be27.5bulk metallic glass. Philosophical Magazine Letters, 2004, 84, 245-256.	0.5	15
76	Photo-directed organization of silver nanoparticles in mesostructured silica and titania films. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	14
77	Changes in the Chemical and Structural Properties of Nanocomposite Ag:TiO₂ Films during Photochromic Transitions. Journal of Physical Chemistry C, 2014, 118, 24055-24061.	1.5	14
78	Direct observation of NiSi lateral growth at the epitaxial Î¸-Ni2Si/Si(1 0 0) interface. Acta Materialia, 2015, 99, 1-6.	3.8	14
79	2D & 3D in situ study of the calcination of Pd nanocatalysts supported on delta-Alumina in an Environmental Transmission Electron Microscope. Catalysis Today, 2019, 334, 68-78.	2.2	14
80	High-resolution electron microscopy imaging of the carbon vacancy superlattice in the ordered carbide VC_{1â^'x}. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1989, 59, 885-906.	0.8	13
81	Stress field around precipitates: direct measurement and relation with the behavior of dislocations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 319-321, 270-273.	2.6	13
82	Structural and chemical analysis of a model Siâ€“SiO2interface using spatially resolved electron-energy-loss spectroscopy. Philosophical Magazine, 2004, 84, 1753-1771.	0.7	13
83	Bifunctional organic/inorganic nanocomposites for energy harvesting, actuation and magnetic sensing applications. Sensors and Actuators A: Physical, 2014, 211, 105-114.	2.0	13
84	Tracking the restructuring of oxidized silverâ€“indium nanoparticles under a reducing atmosphere by environmental HRTEM. Nanoscale, 2017, 9, 13563-13574.	2.8	13
85	Mechanical characterization of diesel soot nanoparticles:in situcompression in a transmission electron microscope and simulations. Nanotechnology, 2018, 29, 085703.	1.3	13
86	Crystal-Chemistry of Transition Metal Hemicarbides. , 1990, , 215-248.		12
87	Preparation, structural and hydrotreating catalytic properties of unsupported NiRh2S4. New Journal of Chemistry, 2002, 26, 1196-1200.	1.4	12
88	Phase separation before crystallization in Zrâ€“Tiâ€“Cuâ€“Niâ€“Be bulk metallic glasses: influence of the chemical composition. Journal of Non-Crystalline Solids, 2004, 345-346, 169-172.	1.5	12
89	Coalescence-free L1 ordering of embedded CoPt nanoparticles. Journal of Applied Physics, 2011, 109, .	1.1	12
90	Chemical composition dispersion in bi-metallic nanoparticles: semi-automated analysis using HAADF-STEM. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	12

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91	Spatial Distribution of the Vanadium Atomic Species in MoVTeO and MoVTeNbO Oxide Catalysts as Revealed by Highâ€Angle Annular Darkâ€Field Scanning Transmission Electron Microscopy. ChemCatChem, 2017, 9, 3526-3533.	1.8	12
92	Characterisation of Niobium Carbide and Carbonitride Evolution within Ferrite: Contribution of Transmission Electron Microscopy and Advanced Associated Techniques. Materials Science Forum, 2005, 500-501, 669-676.	0.3	11
93	Study of temperature and radiation induced microstructural changes in Xe-implanted UO2 by TEM, STEM, SIMS and positron spectroscopy. Journal of Nuclear Materials, 2013, 443, 562-569.	1.3	11
94	On the direct nucleation and growth of ferrite and cementite without austenite. Scripta Materialia, 2015, 95, 35-38.	2.6	11
95	Mechanical response of gasoline soot nanoparticles under compression: An in situ TEM study. Tribology International, 2019, 131, 446-453.	3.0	11
96	Growth morphology and characteristic structure in nanocrystalline Si film of high conductivity. Applied Physics Letters, 1995, 66, 968-970.	1.5	10
97	Unexpected low-temperature crystallization of amorphous silicon nitride into Î±-Si3N4 in a ferritic Feâ€“Si matrix. Scripta Materialia, 2013, 68, 187-190.	2.6	10
98	Benefits of HREM for the study of metal-ceramic interfaces. Journal De Physique III, 1994, 4, 1811-1831.	0.3	10
99	High temperature powder neutron diffraction studies of structural transformations in transition metal hemicarbides M2C1â^'x. Physica B: Condensed Matter, 1989, 156-157, 41-43.	1.3	9
100	Quantitative analysis of HRTEM images from amorphous materials. I: About the estimation ofCsandÎ'ffrom HRTEM diffractograms. EPJ Applied Physics, 1998, 4, 11-26.	0.3	9
101	Delocalization of 4f Electrons in Gadolinium Oxide on the Nanometer Scale. Journal of Physical Chemistry C, 2009, 113, 4038-4041.	1.5	9
102	Polycrystalline Yb³⁺â€“Er³⁺-co-doped YAG: Fabrication, TEM-EDX characterization, spectroscopic properties, and comparison with the single crystal. Journal of Materials Research, 2014, 29, 2288-2296.	1.2	9
103	Study of the Influence of a Low Copper Addition and of an Excess of Silicon on the Precipitation Kinetics and on the Precipitation Sequence of Al-Mg₂Si Alloys. Materials Science Forum, 2002, 396-402, 851-856.	0.3	8
104	Growth of single gold nanofilaments at the apex of conductive atomic force microscope tips. Nanoscale, 2016, 8, 7496-7500.	2.8	8
105	Uncovering the 3â€‰D Structure of Combustionâ€Synthesized Noble Metalâ€Ceria Nanocatalysts. ChemCatChem, 2017, 9, 4607-4613.	1.8	8
106	In-situ annealing transmission electron microscopy of plasmonic thin films composed of bimetallic Auâ€“Ag nanoparticles dispersed in a TiO2 matrix. Vacuum, 2021, 193, 110511.	1.6	8
107	A first HREM observation of the ordered carbon sublattice in a transition-metal carbide (VC_{1-x}). Philosophical Magazine Letters, 1987, 55, 171-179.	0.5	7
108	High temperature powder neutron diffraction studies of structural transformations in transition metal hemicarbides M2C1â^'x. Physica B: Condensed Matter, 1989, 156-157, 44-46.	1.3	7

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109	Preliminary high-resolution electron microscopy study of (11<ovl>2</ovl>0) oriented Al₂O₃â€“Fe interfaces. Philosophical Magazine Letters, 1992, 65, 299-309.	0.5	7
110	Transmission Electron Microscopy and Nano-Precipitation. Advanced Engineering Materials, 2006, 8, 1197-1201.	1.6	7
111	Trichroism in energy-loss near-edge structure spectroscopy: Polarization dependence of near-edge fine structures. Physical Review B, 2007, 76, .	1.1	7
112	Application of a fully relativistic theory to the EELS investigation of anisotropy effects at the oxygen K edge in rutile and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>ZrO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms Physical Review B, 2008, 77, .	1.1	7
113	Three dimensional analysis of nanoporous silicon particles for Li-ion batteries. Materials Characterization, 2017, 124, 165-170.	1.9	7
114	HRTEM study of the morphology of RuS2 supported particles. Catalysis Today, 2001, 66, 91-96.	2.2	6
115	Lateral growth of NiSi at the Î¸-Ni2Si/Si(100) interface: Experiments and modelling. Microelectronic Engineering, 2018, 199, 45-51.	1.1	6
116	Application of Transmission Electron Microscopy to the Study of Transition Metal Carbides. , 1990, , 297-327.		6
117	Observations of dislocations in tungsten hemicarbide deformed at high temperatures. Scripta Metallurgica, 1981, 15, 1279-1283.	1.2	5
118	Hrem Visualization of Light Atoms: An Application to the Study of Carbon Defects in Ordered Transition Metal Carbides. Materials Research Society Symposia Proceedings, 1990, 183, 255.	0.1	5
119	Study of the secondary phase in gas pressure sintered Si3N4 (relation composition â€“ toughness). International Journal of Refractory Metals and Hard Materials, 2001, 19, 419-424.	1.7	5
120	Vanadium Carbide Dissolution during Austenitisation of a Model Microalloyed FeCV Steel. Materials Science Forum, 2005, 500-501, 695-702.	0.3	4
121	Precipitation of Niobium Carbonitrides: Chemical Composition Measurements and Modeling. Materials Science Forum, 0, 539-543, 4196-4201.	0.3	4
122	Absence of Host Cation Segregation in the (Gd,Y)₃Al₅O₁₂ Mixed Garnet Optical Ceramics. Japanese Journal of Applied Physics, 2011, 50, 090207.	0.8	4
123	Permanent dichroic coloring of surfaces by laser-induced formation of chain-like self-organized silver nanoparticles within crystalline titania films. , 2013, , .		4
124	Rapid Tomography in Environmental TEM: How Fast Can We Go to Follow the 3D Evolution of Nanomaterials in situ?. Microscopy and Microanalysis, 2016, 22, 8-9.	0.2	4
125	Conventional and high resolution transmission electron microscopy of NbCâ‰ˆ0.88 single crystals. Journal of the Less Common Metals, 1989, 146, 17-32.	0.9	3
126	High resolution transmission electron microscopy study of interfaces. Materials Chemistry and Physics, 1992, 32, 77-85.	2.0	3

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127	Microstructure of interfaces between a magnesium matrix and preoxidized silicon carbide particles. Journal of Materials Science, 1994, 1, 213.	1.2	3
128	A strategy for simulating Electron Energy-Loss Near-Edge Structures of nanoparticles: application to size effects in Gd₂O₃. EPJ Applied Physics, 2011, 54, 33511.	0.3	3
129	Investigation of the in-plane and out-of-plane electrical properties of metallic nanoparticles in dielectric matrix thin films elaborated by atomic layer deposition. Nanotechnology, 2017, 28, 455602.	1.3	3
130	Correlative STEM-HAADF and STEM-EDX tomography for the 3D morphological and chemical analysis of semiconductor devices. Semiconductor Science and Technology, 2021, 36, 035006.	1.0	3
131	Morphology and topology assessment in hierarchical zeolite materials: adsorption hysteresis, scanning behavior, and domain theory. Inorganic Chemistry Frontiers, 2022, 9, 2903-2916.	3.0	3
132	Electron microscopy study of the microstructure of a hot-pressed silicon nitride. Ceramics International, 1982, 8, 154-158.	2.3	2
133	About the Structure, Morphology and Orientation Relationships of Î²'-Mg₂Si Precipitates in Al. Materials Science Forum, 1993, 126-128, 121-124.	0.3	2
134	Convergent analytical approach for the characterization of solutions and deposits of nano-colloids. European Physical Journal Special Topics, 2002, 12, 499-508.	0.2	2
135	How do the grains slide in fine-grained zirconia polycrystals at high temperature?. Applied Physics Letters, 2007, 91, 121904.	1.5	2
136	Defect analysis of a silicon nanowire transistor by X-ray energy dispersive spectroscopy technique in a STEM: 2D mappings and tomography. Journal of Physics: Conference Series, 2013, 471, 012027.	0.3	2
137	Calcination of Pd Nanoparticles on Delta Alumina : Ex-situ Analysis versus In-situ Environmental TEM. Microscopy and Microanalysis, 2016, 22, 58-59.	0.2	2
138	Contribution of Local Analysis Techniques for the Characterization of Iron and Alloying Elements in Nitrides: Consequences on the Precipitation Process in Feâ€“Si and Feâ€“Cr Nitrided Alloys. Materials, 2018, 11, 1409.	1.3	2
139	Absence of Host Cation Segregation in the (Gd,Y)3Al5O12Mixed Garnet Optical Ceramics. Japanese Journal of Applied Physics, 2011, 50, 090207.	0.8	2
140	Dislocation Structures in Polycrystalline Tungsten Hemicarbide W2C Deformed at High Temperatures. , 1984, , 73-86.		1
141	Microstructural study of a MgO-doped alumina-based ceramic. Materials Chemistry and Physics, 1992, 32, 169-176.	2.0	1
142	Nano-Scale Analytical Characterization of Engineering Materials by Transmission Electron Microscopy. Advanced Engineering Materials, 2001, 3, 612.	1.6	1
143	Advanced Microscopy Techniques for a Better Understanding of the Polymer/Nanotube Composite Properties. , 2014, , 365-404.		1
144	Nanoparticles in The ETEM: From Gas-Surface Interactions of Single Objects to Collective Behavior of Nanocatalysts. Microscopy and Microanalysis, 2017, 23, 1850-1851.	0.2	1

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145	Environmental electron microscopy: materials in their real live in gas or liquid. Journal of Microscopy, 2018, 269, 115-116.	0.8	1
146	Correlative HAADF-STEM and EDX-STEM Tomography for the 3D Morphological and Elemental Analysis of FinFET Semiconductor Devices. Microscopy and Microanalysis, 2018, 24, 388-389.	0.2	1
147	A Machine Learning pipeline to track the dynamics of a population of nanoparticles during in situ Environmental Transmission Electron Microscopy in gases. Microscopy and Microanalysis, 2021, 27, 2236-2237.	0.2	1
148	ContrÃ1e optique de la croissance et de la dÃ©formation de nanoparticules mÃ©talliques au sein de matrices mÃ©soporeuses de TiO2. , 2013, , .		1
149	Elaboration of h-Bn Sheathed Î²-Sic Nanocables. Materials Research Society Symposia Proceedings, 2003, 772, 331.	0.1	1
150	High-resolution electron microscopy of Î±-cordierite (indialite). Materials Letters, 1991, 11, 389-395.	1.3	0
151	Recent developments in transmission electron microscopy imaging. Revue De Metallurgie, 2003, 100, 449-462.	0.3	0
152	Micro-electronic devices analysis by high resolution transmission electron microscopy. Revue De Metallurgie, 2003, 100, 477-494.	0.3	0
153	Atom Probe Field Ion Microscopy and High Resolution Electron Microscopy: two complementary methods for atomic scale characterisation. , 2006, , .		0
154	Atomic Scale Characterisation of GP Zones in the Fe-Nb-(C-N) System. , 2006, , .		0
155	PrÃ©cipitation mÃ©tastable dans les alliages Al 6XXX : apports de lâ€™imagerie enSTEM-ADFÃ lâ€™Ã©chelle atomique. Revue De Metallurgie, 2012, 109, 393-407.	0.3	0
156	Is There Segregation of Rare Earth Ions in Garnet Optical Ceramics?. NATO Science for Peace and Security Series B: Physics and Biophysics, 2013, , 333-345.	0.2	0
157	Laser-induced periodic nanoparticle patterns. , 2014, , .		0
158	Networking strategies of the microscopy community for improved utilization of advanced instruments: (2) The national network for transmission electron microscopy and atom probe studies in France (METSA). Comptes Rendus Physique, 2014, 15, 276-280.	0.3	0
159	Ni silicides formation: Use of Ge and Pt to study the diffusing species, lateral growth and relaxation mechanisms. , 2015, , .		0
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161	Size and Environment Effect on the Room Temperature Plastic Deformation of Ceramic Nanoparticles. Microscopy and Microanalysis, 2016, 22, 48-49.	0.2	0
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