

Thierry Epicier

List of Publications by Year in descending order

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167
papers

4,345
citations

117453

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all docs

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docs citations

175
times ranked

5625
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning detection of nanoparticles and multiple object tracking of their dynamic evolution during in situ ETEM studies. <i>Scientific Reports</i> , 2022, 12, 2484.	1.6	16
2	Morphology and topology assessment in hierarchical zeolite materials: adsorption hysteresis, scanning behavior, and domain theory. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2903-2916.	3.0	3
3	Correlative STEM-HAADF and STEM-EDX tomography for the 3D morphological and chemical analysis of semiconductor devices. <i>Semiconductor Science and Technology</i> , 2021, 36, 035006.	1.0	3
4	A Machine Learning pipeline to track the dynamics of a population of nanoparticles during in situ Environmental Transmission Electron Microscopy in gases. <i>Microscopy and Microanalysis</i> , 2021, 27, 2236-2237.	0.2	1
5	In-situ annealing transmission electron microscopy of plasmonic thin films composed of bimetallic Au@Ag nanoparticles dispersed in a TiO ₂ matrix. <i>Vacuum</i> , 2021, 193, 110511.	1.6	8
6	Exploiting the dynamic properties of Pt on ceria for low-temperature CO oxidation. <i>Catalysis Science and Technology</i> , 2020, 10, 3904-3917.	2.1	38
7	Highly ductile amorphous oxide at room temperature and high strain rate. <i>Science</i> , 2019, 366, 864-869.	6.0	107
8	Can the environmental TEM confirm atomistic models of adsorbed molecules at surfaces of solids?. <i>Microscopy and Microanalysis</i> , 2019, 25, 1440-1441.	0.2	0
9	Migration and Growth of Silver Nanoparticles in Zeolite Socony Mobil 5 (ZSM-5) Observed by Environmental Electron Microscopy: Implications for Heterogeneous Catalysis. <i>ACS Applied Nano Materials</i> , 2019, 2, 6452-6461.	2.4	16
10	2D & 3D in situ study of the calcination of Pd nanocatalysts supported on delta-Alumina in an Environmental Transmission Electron Microscope. <i>Catalysis Today</i> , 2019, 334, 68-78.	2.2	14
11	Fast electron tomography: Applications to beam sensitive samples and in situ TEM or operando environmental TEM studies. <i>Materials Characterization</i> , 2019, 151, 480-495.	1.9	36
12	Mechanical response of gasoline soot nanoparticles under compression: An in situ TEM study. <i>Tribology International</i> , 2019, 131, 446-453.	3.0	11
13	Evaluation of noise and blur effects with SIRT-FISTA-TV reconstruction algorithm: Application to fast environmental transmission electron tomography. <i>Ultramicroscopy</i> , 2018, 189, 109-123.	0.8	21
14	Mechanical characterization of diesel soot nanoparticles: <i>in situ</i> compression in a transmission electron microscope and simulations. <i>Nanotechnology</i> , 2018, 29, 085703.	1.3	13
15	Hollow Beta Zeolite Single Crystals for the Design of Selective Catalysts. <i>Crystal Growth and Design</i> , 2018, 18, 592-596.	1.4	27
16	Environmental electron microscopy: materials in their real live in gas or liquid. <i>Journal of Microscopy</i> , 2018, 269, 115-116.	0.8	1
17	Fast <i>in situ</i> operando electron nanotomography. <i>Journal of Microscopy</i> , 2018, 269, 117-126.	0.8	29
18	Correlative HAADF-STEM and EDX-STEM Tomography for the 3D Morphological and Elemental Analysis of FinFET Semiconductor Devices. <i>Microscopy and Microanalysis</i> , 2018, 24, 388-389.	0.2	1

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19	Electron Tomography of Plasmonic Au Nanoparticles Dispersed in a TiO ₂ Dielectric Matrix. ACS Applied Materials & Interfaces, 2018, 10, 42882-42890.	4.0	20
20	Contribution of Local Analysis Techniques for the Characterization of Iron and Alloying Elements in Nitrides: Consequences on the Precipitation Process in Fe-Si and Fe-Cr Nitrided Alloys. Materials, 2018, 11, 1409.	1.3	2
21	Lateral growth of NiSi at the $\hat{\Gamma}$ -Ni ₂ Si/Si(100) interface: Experiments and modelling. Microelectronic Engineering, 2018, 199, 45-51.	1.1	6
22	Very Fast Tomography in the (E)TEM to Probe Dynamics in Materials during Operando and In Situ Experiments. Microscopy and Microanalysis, 2018, 24, 1814-1815.	0.2	0
23	Visualizing and Quantifying the Cationic Mobility at {100} Surfaces of Ceria: Application to CO ₂ Adsorption/Desorption Phenomena in the Environmental Transmission Electron Microscope. Microscopy and Microanalysis, 2018, 24, 1940-1941.	0.2	0
24	Spatial Distribution of the Vanadium Atomic Species in MoVTeO and MoVTeNbO Oxide Catalysts as Revealed by High-Angle Annular Dark-Field Scanning Transmission Electron Microscopy. ChemCatChem, 2017, 9, 3526-3533.	1.8	12
25	HAADF-STEM characterization and simulation of nanoparticle distributions in an inhomogeneous matrix. Journal of Microscopy, 2017, 266, 60-68.	0.8	16
26	Localization of Yb ³⁺ , Er ³⁺ and Co ²⁺ Dopants in an Optical Glass Ceramics of MgAl ₂ O ₄ Spinel Nano-crystals Embedded in SiO ₂ Glass. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 319-341.	0.2	0
27	Three-Dimensional Self-Organization in Nanocomposite Layered Systems by Ultrafast Laser Pulses. ACS Nano, 2017, 11, 5031-5040.	7.3	65
28	Three dimensional analysis of nanoporous silicon particles for Li-ion batteries. Materials Characterization, 2017, 124, 165-170.	1.9	7
29	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
30	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
31	Uncovering the 3D Structure of Combustion-Synthesized Noble Metal-Ceria Nanocatalysts. ChemCatChem, 2017, 9, 4607-4613.	1.8	8
32	Tracking the restructuring of oxidized silver-indium nanoparticles under a reducing atmosphere by environmental HRTEM. Nanoscale, 2017, 9, 13563-13574.	2.8	13
33	Tuning the Structure of Platinum Particles on Ceria In-Situ for Enhancing the Catalytic Performance of Exhaust Gas Catalysts. Angewandte Chemie - International Edition, 2017, 56, 13078-13082.	7.2	201
34	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
35	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
36	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

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37	Size and Environment Effect on the Room Temperature Plastic Deformation of Ceramic Nanoparticles. <i>Microscopy and Microanalysis</i> , 2016, 22, 48-49.	0.2	0
38	Rapid Tomography in Environmental TEM: How Fast Can We Go to Follow the 3D Evolution of Nanomaterials in situ?. <i>Microscopy and Microanalysis</i> , 2016, 22, 8-9.	0.2	4
39	In Situ Environmental STEM Study of the MoVTe Oxide M1 Phase Catalysts for Ethane Oxidative Dehydrogenation. <i>ACS Catalysis</i> , 2016, 6, 4775-4781.	5.5	43
40	Growth of single gold nanofilaments at the apex of conductive atomic force microscope tips. <i>Nanoscale</i> , 2016, 8, 7496-7500.	2.8	8
41	Ni silicides formation: Use of Ge and Pt to study the diffusing species, lateral growth and relaxation mechanisms. , 2015, , .		0
42	An Approach in the Structural and Spectroscopic Analysis of Yb ³⁺ -Doped YAG Nano-ceramics by Conjugation of TEM-EDX and Optical Techniques. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2015, , 285-307.	0.2	0
43	Direct observation of NiSi lateral growth at the epitaxial $\hat{1}$ -Ni ₂ Si/Si(1 0 0) interface. <i>Acta Materialia</i> , 2015, 99, 1-6.	3.8	14
44	Investigations of soot combustion on yttria-stabilized zirconia by environmental transmission electron microscopy (ETEM). <i>Applied Catalysis A: General</i> , 2015, 504, 74-80.	2.2	26
45	Understanding the Growth Mechanisms of Ag Nanoparticles Controlled by Plasmon-Induced Charge Transfers in Ag-TiO ₂ Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9496-9505.	1.5	33
46	Crystal orientation mapping via ion channeling: An alternative to EBSD. <i>Ultramicroscopy</i> , 2015, 157, 65-72.	0.8	20
47	On the direct nucleation and growth of ferrite and cementite without austenite. <i>Scripta Materialia</i> , 2015, 95, 35-38.	2.6	11
48	Conjugation of TEM-EDX and optical spectroscopy tools for the localization of Yb ³⁺ , Er ³⁺ and Co ²⁺ dopants in laser glass ceramics composed of MgAl ₂ O ₄ spinel nano-crystals embedded in SiO ₂ glass. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9385-9397.	2.7	21
49	Polycrystalline Yb ³⁺ Er ³⁺ -co-doped YAG: Fabrication, TEM-EDX characterization, spectroscopic properties, and comparison with the single crystal. <i>Journal of Materials Research</i> , 2014, 29, 2288-2296.	1.2	9
50	Laser-induced periodic nanoparticle patterns. , 2014, , .		0
51	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 (METSAs). <i>Comptes Rendus Physique</i> , 2014, 15, 276-280.	0.3	0
52	Bifunctional organic/inorganic nanocomposites for energy harvesting, actuation and magnetic sensing applications. <i>Sensors and Actuators A: Physical</i> , 2014, 211, 105-114.	2.0	13
53	Mechanical behavior law of ceramic nanoparticles from transmission electron microscopy in situ nano-compression tests. <i>Materials Letters</i> , 2014, 119, 107-110.	1.3	34
54	Multilayered YAG:Yb:YAG ceramics: manufacture and laser performance. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10138-10148.	2.7	33

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55	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
56	Yb ³⁺ 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
57	Changes in the Chemical and Structural Properties of Nanocomposite Ag:TiO ₂ Films during Photochromic Transitions. Journal of Physical Chemistry C, 2014, 118, 24055-24061.	1.5	14
58	Advanced Microscopy Techniques for a Better Understanding of the Polymer/Nanotube Composite Properties. , 2014, , 365-404.		1
59	Study of temperature and radiation induced microstructural changes in Xe-implanted UO ₂ by TEM, STEM, SIMS and positron spectroscopy. Journal of Nuclear Materials, 2013, 443, 562-569.	1.3	11
60	Internalization pathways into cancer cells of gadolinium-based radiosensitizing nanoparticles. Biomaterials, 2013, 34, 181-195.	5.7	83
61	Photo-directed organization of silver nanoparticles in mesostructured silica and titania films. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	14
62	Xenon migration in UO ₂ under irradiation studied by SIMS profilometry. Journal of Nuclear Materials, 2013, 440, 562-567.	1.3	29
63	Chemical 3D tomography of 28nm high K metal gate transistor: STEM XEDS experimental method and results. Micron, 2013, 47, 43-49.	1.1	51
64	Multi- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mi}\rangle L \langle \text{mml:mi}\rangle \langle \text{mml:msub}\rangle \langle \text{mml:mn}\rangle 1 \langle \text{mml:mn}\rangle \langle \text{mml:mn}\rangle 0 \langle \text{mml:mn}\rangle \langle \text{mml:msub}\rangle \langle \text{mml:math}\rangle \text{Domain CoPt and FePt Nanoparticles Revealed by Electron Microscopy. Physical Review Letters, 2013, 110, 055501.$	2.9	51
65	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
66	Unexpected low-temperature crystallization of amorphous silicon nitride into $\hat{L}\pm$ -Si ₃ N ₄ in a ferritic Fe $\hat{L}\epsilon^4$ Si matrix. Scripta Materialia, 2013, 68, 187-190.	2.6	10
67	Permanent dichroic coloring of surfaces by laser-induced formation of chain-like self-organized silver nanoparticles within crystalline titania films. , 2013, , .		4
68	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
69	ContrÃ1e optique de la croissance et de la dÃ©formation de nanoparticules mÃ©talliques au sein de matrices mÃ©soporeuses de TiO ₂ . , 2013, , .		1
70	PrÃ©cipitation mÃ©tastable dans les alliages Al 6XXX : apports de lâ€™imagerie en STEM-ADF </i> lâ€™Ã©chelle atomique. Revue De Metallurgie, 2012, 109, 393-407.	0.3	0
71	Chemical composition dispersion in bi-metallic nanoparticles: semi-automated analysis using HAADF-STEM. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	12
72	One-Step Microstructuring of TiO ₂ and Ag-TiO ₂ Films by Continuous Wave Laser Processing in the UV and Visible Ranges. Journal of Physical Chemistry C, 2012, 116, 26857-26864.	1.5	26

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73	Unifying natural and laboratory chemical weathering with interfacial dissolution–reprecipitation: A study based on the nanometer-scale chemistry of fluid–silicate interfaces. <i>Chemical Geology</i> , 2012, 294-295, 203-216.	1.4	234
74	Spatial distribution of the Yb ³⁺ rare earth ions in Y ₃ Al ₅ O ₁₂ and Y ₂ O ₃ optical ceramics as analyzed by TEM. <i>Journal of Materials Chemistry</i> , 2012, 22, 18221.	6.7	44
75	Quantitative MAS NMR characterization of the LiMn _{1/2} Ni _{1/2} O ₂ electrode/electrolyte interphase. <i>Solid State Nuclear Magnetic Resonance</i> , 2012, 42, 51-61.	1.5	41
76	Real time TEM observation of alumina ceramic nano-particles during compression. <i>Journal of the European Ceramic Society</i> , 2012, 32, 2067-2071.	2.8	47
77	Integrated analysis of non-linear loss mechanisms in Yb:YAG ceramics for laser applications. <i>Journal of the European Ceramic Society</i> , 2012, 32, 2273-2281.	2.8	37
78	Atomic-scale imaging and analysis of single layer GP zones in a model steel. <i>Journal of Materials Science</i> , 2012, 47, 1567-1571.	1.7	26
79	Toward an Image-Guided Microbeam Radiation Therapy Using Gadolinium-Based Nanoparticles. <i>ACS Nano</i> , 2011, 5, 9566-9574.	7.3	212
80	Coalescence-free L1 ordering of embedded CoPt nanoparticles. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	12
81	Measuring the $\langle L \rangle$ order parameter of a single CoPt nanoparticle smaller than 4 nm. <i>Physical Review B</i> , 2011, 83, .		
82	A strategy for simulating Electron Energy-Loss Near-Edge Structures of nanoparticles: application to size effects in Gd ₂ O ₃ . <i>EPJ Applied Physics</i> , 2011, 54, 33511.	0.3	3
83	Low temperature precipitation kinetics of niobium nitride platelets in Fe. <i>Materials Letters</i> , 2011, 65, 2265-2268.	1.3	27
84	Effects of heat treatments on the microstructure and mechanical properties of a 6061 aluminium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 2718-2724.	2.6	179
85	Ce ³⁺ dopant segregation in Y ₃ Al ₅ O ₁₂ optical ceramics. <i>Optical Materials</i> , 2011, 33, 684-687.	1.7	76
86	Absence of Host Cation Segregation in the (Gd,Y) ₃ Al ₅ O ₁₂ Mixed Garnet Optical Ceramics. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 090207.	0.8	4
87	Absence of Host Cation Segregation in the (Gd,Y) ₃ Al ₅ O ₁₂ Mixed Garnet Optical Ceramics. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 090207.	0.8	2
88	Spectroscopic properties of Yb ³⁺ -doped Y ₃ Al ₅ O ₁₂ nano-ceramics obtained under different sintering pressures. <i>Radiation Measurements</i> , 2010, 45, 304-306.	0.7	18
89	Evidence of the Inhomogeneous Ce ³⁺ Distribution across Grain Boundaries in Transparent Polycrystalline Ce ³⁺ -Doped (Gd,Y) ₃ Al ₅ O ₁₂ Garnet Optical Ceramics. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 022602.	0.8	37
90	Ordered Arrays of Nanorods Obtained by Solid–Liquid Reactions of LaOCl Crystals. <i>Chemistry of Materials</i> , 2010, 22, 5411-5419.	3.2	21

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91	STEM HAADF electron tomography of palladium nanoparticles with complex shapes. Philosophical Magazine Letters, 2009, 89, 145-153.	0.5	16
92	Delocalization of 4f Electrons in Gadolinium Oxide on the Nanometer Scale. Journal of Physical Chemistry C, 2009, 113, 4038-4041.	1.5	9
93	Anti-wear and Friction Reducing Mechanisms of Carbon Nano-onions as Lubricant Additives. Tribology Letters, 2008, 30, 69-80.	1.2	152
94	Characterization of precipitates size distribution: validation of low-voltage STEM. Journal of Microscopy, 2008, 232, 112-122.	0.8	16
95	Evidence of order in CoPt nanoclusters: Direct observation and magnetic signature. Physical Review B, 2008, 77, .	1.1	14
96	Application of a fully relativistic theory to the EELS investigation of anisotropy effects at the oxygen K edge in rutile and ZrO ₂ . Physical Review B, 2008, 77, .	1.1	7
97	Crystallographic structure of vanadium carbide precipitates in a model Fe-C-V steel. Philosophical Magazine, 2008, 88, 31-45.	0.7	39
98	Anisotropic effects in ELNES of the O-K edge in rutile: a case of trichroism. , 2008, , 371-372.		0
99	Trichroism in energy-loss near-edge structure spectroscopy: Polarization dependence of near-edge fine structures. Physical Review B, 2007, 76, .	1.1	7
100	Precipitation of niobium carbonitrides in ferrite: chemical composition measurements and thermodynamic modelling. Philosophical Magazine Letters, 2007, 87, 645-656.	0.5	35
101	How do the grains slide in fine-grained zirconia polycrystals at high temperature?. Applied Physics Letters, 2007, 91, 121904.	1.5	2
102	Structural and magnetic properties of CoPt mixed clusters. Physical Review B, 2006, 74, .	1.1	46
103	Complex precipitation pathways in multicomponent alloys. Nature Materials, 2006, 5, 482-488.	13.3	272
104	EELS study of niobium carbo-nitride nano-precipitates in ferrite. Micron, 2006, 37, 492-502.	1.1	54
105	Polarization dependence in ELNES: Influence of probe convergence, collector aperture and electron beam incidence angle. Ultramicroscopy, 2006, 106, 449-460.	0.8	17
106	Correlation of optical and photoluminescence properties in amorphous SiN _x :H thin films deposited by PECVD or UVCVD. Thin Solid Films, 2006, 511-512, 103-107.	0.8	25
107	Transmission Electron Microscopy and Nano-Precipitation. Advanced Engineering Materials, 2006, 8, 1197-1201.	1.6	7
108	Atom Probe Field Ion Microscopy and High Resolution Electron Microscopy: two complementary methods for atomic scale characterisation. , 2006, , .		0

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109	Atomic Scale Characterisation of GP Zones in the Fe-Nb-(C-N) System. , 2006, , .		0
110	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
111	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
112	Vanadium Carbide Dissolution during Austenitisation of a Model Microalloyed FeCV Steel. Materials Science Forum, 2005, 500-501, 695-702.	0.3	4
113	Compositions of different phases appearing during devitrification of Zr _{46.75} Ti _{8.25} Cu _{7.5} Ni ₁₀ Be _{27.5} bulk metallic glass. Philosophical Magazine Letters, 2004, 84, 245-256.	0.5	15
114	Modeling the aging kinetics of zirconia ceramics. Journal of the European Ceramic Society, 2004, 24, 3483-3489.	2.8	107
115	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
116	Nanostructured thin films from mixed magnetic Co-Ag clusters. Applied Surface Science, 2004, 226, 265-270.	3.1	32
117	Structural and chemical analysis of a model Si-SiO ₂ interface using spatially resolved electron-energy-loss spectroscopy. Philosophical Magazine, 2004, 84, 1753-1771.	0.7	13
118	Phase separation before crystallization in Zr-Ti-Cu-Ni-Be bulk metallic glasses: influence of the chemical composition. Journal of Non-Crystalline Solids, 2004, 345-346, 169-172.	1.5	12
119	N-K ELNES study of anisotropy effects in hexagonal AlN. Journal of Microscopy, 2003, 210, 60-65.	0.8	25
120	Direct Structural and Chemical Analysis of Individual Core-Shell (Pd, Sn) Nanocolloids. Journal of Physical Chemistry B, 2003, 107, 1723-1726.	1.2	17
121	Direct synthesis of amorphous silicon dioxide nanowires and helical self-assembled nanostructures derived therefrom. Journal of Materials Chemistry, 2003, 13, 3058.	6.7	42
122	Recent developments in transmission electron microscopy imaging. Revue De Metallurgie, 2003, 100, 449-462.	0.3	0
123	Micro-electronic devices analysis by high resolution transmission electron microscopy. Revue De Metallurgie, 2003, 100, 477-494.	0.3	0
124	Elaboration of h-Bn Sheathed \hat{I}^2 -SiC Nanocables. Materials Research Society Symposia Proceedings, 2003, 772, 331.	0.1	1
125	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
126	Preparation, structural and hydrotreating catalytic properties of unsupported NiRh ₂ S ₄ . New Journal of Chemistry, 2002, 26, 1196-1200.	1.4	12

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127	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
128	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
129	Direct synthesis of $\hat{\Gamma}^2$ -SiC and h-BN coated $\hat{\Gamma}^2$ -SiC nanowires. Solid State Communications, 2002, 124, 157-161.	0.9	42
130	Improving the Durability of a Biomedical $\hat{\Gamma}$ -Grade Zirconia Ceramic by the Addition of Silica. Journal of the American Ceramic Society, 2002, 85, 401-407.	1.9	54
131	Nano-Scale Analytical Characterization of Engineering Materials by Transmission Electron Microscopy. Advanced Engineering Materials, 2001, 3, 612.	1.6	1
132	HRTEM study of the morphology of RuS ₂ supported particles. Catalysis Today, 2001, 66, 91-96.	2.2	6
133	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
134	Study of the secondary phase in gas pressure sintered Si ₃ N ₄ (relation composition $\hat{\Gamma}$ toughness). International Journal of Refractory Metals and Hard Materials, 2001, 19, 419-424.	1.7	5
135	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
136	Microstructural study of silica-doped zirconia ceramics. Acta Materialia, 2000, 48, 4647-4652.	3.8	65
137	Microscopic evidence of C ₄₀ and C ₅₄ in (Ti,Ta)Si ₂ : Template mechanism. Physical Review B, 1999, 60, 9165-9168.	1.1	26
138	Quantitative analysis of HRTEM images from amorphous materials. I: About the estimation of C and $\hat{\Gamma}$ from HRTEM diffractograms. EPJ Applied Physics, 1998, 4, 11-26.	0.3	9
139	Growth morphology and characteristic structure in nanocrystalline Si film of high conductivity. Applied Physics Letters, 1995, 66, 968-970.	1.5	10
140	Microstructure of interfaces between a magnesium matrix and preoxidized silicon carbide particles. Journal of Materials Science, 1994, 1, 213.	1.2	3
141	Benefits of HREM for the study of metal-ceramic interfaces. Journal De Physique III, 1994, 4, 1811-1831.	0.3	10
142	About the Structure, Morphology and Orientation Relationships of $\hat{\Gamma}^2$ -Mg ₂ Si Precipitates in Al. Materials Science Forum, 1993, 126-128, 121-124.	0.3	2
143	Preliminary high-resolution electron microscopy study of (11 $\bar{2}$ 0) oriented Al ₂ O ₃ $\hat{\Gamma}$ -Fe interfaces. Philosophical Magazine Letters, 1992, 65, 299-309.	0.5	7
144	High resolution transmission electron microscopy study of interfaces. Materials Chemistry and Physics, 1992, 32, 77-85.	2.0	3

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145	Microstructural study of a MgO-doped alumina-based ceramic. <i>Materials Chemistry and Physics</i> , 1992, 32, 169-176.	2.0	1
146	High-resolution electron microscopy of Î± -cordierite (indialite). <i>Materials Letters</i> , 1991, 11, 389-395.	1.3	0
147	Microstructural characterization of aluminum titanate-based composite materials. <i>Journal of the European Ceramic Society</i> , 1991, 7, 385-396.	2.8	15
148	Benefits of High-Resolution Electron Microscopy for the Structural Characterization of Mullites. <i>Journal of the American Ceramic Society</i> , 1991, 74, 2359-2366.	1.9	30
149	High resolution electron microscopy study of the cationic disorder in $\text{Al}_{2/5}\text{TiO}_5$. <i>Journal of Materials Research</i> , 1991, 6, 138-145.	1.2	29
150	Hrem Visualization of Light Atoms: An Application to the Study of Carbon Defects in Ordered Transition Metal Carbides. <i>Materials Research Society Symposia Proceedings</i> , 1990, 183, 255.	0.1	5
151	Atomic imaging of 3:2 mullite. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1990, 46, 948-962.	0.3	26
152	Improved high-temperature mechanical properties of zirconia-doped mullite. <i>Journal of Materials Science Letters</i> , 1990, 9, 1400-1402.	0.5	18
153	HREM study of the chemical nature of twin planes in CuAlO_2 . <i>Philosophical Magazine Letters</i> , 1990, 61, 285-291.	0.5	18
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