

VÃ-ctor M Orera

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2246359/publications.pdf>

Version: 2024-02-01

190
papers

5,010
citations

94269

37
h-index

123241

61
g-index

195
all docs

195
docs citations

195
times ranked

3393
citing authors

#	ARTICLE	IF	CITATIONS
1	Directionally solidified eutectic ceramic oxides. Progress in Materials Science, 2006, 51, 711-809.	16.0	464
2	Ultra-High-Strength Nanofibrillar Al ₂ O ₃ -YAG-YSZ Eutectics. Advanced Materials, 2007, 19, 2313-2318.	11.1	156
3	Intrinsic electron and hole defects in stabilized zirconia single crystals. Physical Review B, 1990, 42, 9782-9789.	1.1	151
4	Electrolyte degradation in anode supported microtubular yttria stabilized zirconia-based solid oxide steam electrolysis cells at high voltages of operation. Journal of Power Sources, 2011, 196, 8942-8947.	4.0	131
5	ZrO ₂ -Al ₂ O ₃ eutectic plates produced by laser zone melting. Journal of the European Ceramic Society, 2002, 22, 191-198.	2.8	129
6	Mechanical properties of directionally solidified Al ₂ O ₃ -ZrO ₂ (Y ₂ O ₃) eutectics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 308, 241-249.	2.6	117
7	Processing, microstructure and mechanical properties of directionally-solidified Al ₂ O ₃ -Y ₃ Al ₅ O ₁₂ -ZrO ₂ ternary eutectics. Journal of the European Ceramic Society, 2006, 26, 3113-3121.	2.8	112
8	Microstructure of Y ₂ O ₃ doped Al ₂ O ₃ -ZrO ₂ eutectics grown by the laser floating zone method. Journal of the European Ceramic Society, 2002, 22, 2595-2602.	2.8	108
9	Microstructure and mechanical properties of Al ₂ O ₃ -YSZ and Al ₂ O ₃ -YAG directionally solidified eutectic plates. Journal of the European Ceramic Society, 2005, 25, 1419-1429.	2.8	102
10	Improved stability of reversible solid oxide cells with a nickelate-based oxygen electrode. Journal of Materials Chemistry A, 2016, 4, 1446-1453.	5.2	83
11	Influence of the Y ₂ O ₃ Content and Temperature on the Mechanical Properties of Melt-Grown Al ₂ O ₃ -ZrO ₂ Eutectics. Journal of the American Ceramic Society, 2004, 87, 633-639.	1.9	78
12	Fabrication, electrochemical characterization and thermal cycling of anode supported microtubular solid oxide fuel cells. Journal of Power Sources, 2009, 192, 120-125.	4.0	72
13	Microstructure and physical properties of some oxide eutectic composites processed by directional solidification. Acta Materialia, 2000, 48, 4683-4689.	3.8	70
14	Micropillar compression of LiF [111] single crystals: Effect of size, ion irradiation and misorientation. International Journal of Plasticity, 2012, 36, 50-63.	4.1	69
15	Phase Distribution and Residual Stresses in Melt-Grown Al ₂ O ₃ -ZrO ₂ (Y ₂ O ₃) Eutectics. Journal of the American Ceramic Society, 2002, 85, 2025-2032.	1.9	68
16	Oxidation state and localization of chromium ions in Cr-doped cassiterite and Cr-doped malayaite. Acta Materialia, 2003, 51, 2371-2381.	3.8	68
17	Piezospectroscopic Study of Residual Stresses in Al ₂ O ₃ -ZrO ₂ Directionally Solidified Eutectics. Journal of the American Ceramic Society, 2000, 83, 2745-2752.	1.9	68
18	Effect of oxygen content on the ²⁹ Si NMR, Raman spectra and oxide ion conductivity of the apatite series, La _{8+x} Sr _{2-2x} (SiO ₄) ₆ O _{2+x/2} . Dalton Transactions, 2008, , 5296.	1.6	64

#	ARTICLE	IF	CITATIONS
19	Microstructure and mechanical properties of Al ₂ O ₃ /Er ₃ Al ₅ O ₁₂ eutectic rods grown by the laser-heated floating zone method. <i>Journal of the European Ceramic Society</i> , 2011, 31, 1241-1250.	2.8	61
20	Performance and Aging of Microtubular YSZ-based Solid Oxide Regenerative Fuel Cells. <i>Fuel Cells</i> , 2011, 11, 116-123.	1.5	60
21	Ce ³⁺ →Ce ⁴⁺ conversion in ceria-doped zirconia single crystals induced by oxido-reduction treatments. <i>Solid State Ionics</i> , 1994, 72, 224-231.	1.3	57
22	Synthesis, Structural Characterization, and Luminescence Studies of Gold(I) and Gold(III) Complexes with a Triphosphine Ligand. <i>Inorganic Chemistry</i> , 1998, 37, 5125-5130.	1.9	50
23	Preparation through Aerosols of Cr-doped Y ₂ Sn ₂ O ₇ (Pyrochlore) Red-Color Pigments and Determination of the Cr Oxidation State. <i>Journal of the American Ceramic Society</i> , 2004, 87, 2108-2113.	1.9	50
24	Growth of eutectic ceramic structures by directional solidification methods. <i>Journal of Crystal Growth</i> , 2012, 360, 99-104.	0.7	46
25	Reversible operation of microtubular solid oxide cells using La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} -Ce _{0.9} Gd _{0.1} O _{2-δ} oxygen electrodes. <i>Journal of Power Sources</i> , 2018, 378, 184-189.	4.0	46
26	High-temperature plastic behaviour of Al ₂ O ₃ -Y ₃ Al ₅ O ₁₂ directionally solidified eutectics. <i>Acta Materialia</i> , 2006, 54, 3107-3116.	3.8	45
27	Steam Electrolysis Using a Microtubular Solid Oxide Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2010, 157, B852.	1.3	45
28	Spectroscopic properties of Er ³⁺ and Nd ³⁺ doped glasses with the 0.8CaSiO ₃ -0.2Ca ₃ (PO ₄) ₂ eutectic composition. <i>Journal of Non-Crystalline Solids</i> , 2002, 298, 23-31.	1.5	44
29	Structured porous Ni- and Co-YSZ cermets fabricated from directionally solidified eutectic composites. <i>Journal of the European Ceramic Society</i> , 2005, 25, 1455-1462.	2.8	43
30	Fabrication Methods and Performance in Fuel Cell and Steam Electrolysis Operation Modes of Small Tubular Solid Oxide Fuel Cells: A Review. <i>Frontiers in Energy Research</i> , 2014, 2, .	1.2	43
31	Self-organization approach for THz polaritonic metamaterials. <i>Optics Express</i> , 2012, 20, 14663.	1.7	42
32	Formation and size evolution of Ca colloids in additively colored CaF ₂ . <i>Physica Status Solidi A</i> , 1976, 38, 621-627.	1.7	40
33	Luminescence properties of ZrO ₂ -CaO eutectic crystals with ordered lamellar microstructure activated with Er ³⁺ ions. <i>Physical Review B</i> , 1997, 56, 10907-10915.	1.1	40
34	Raman and x-ray study of perovskite solid solutions. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 11687-11702.	0.7	40
35	Effect of substitutional hydride ions on the charge states of oxygen vacancies in thermochemically reduced CaO and MgO. <i>Physical Review B</i> , 1990, 42, 1410-1416.	1.1	39
36	Laser drilling of Ni-YSZ cermets. <i>Journal of the European Ceramic Society</i> , 2008, 28, 2673-2680.	2.8	39

#	ARTICLE	IF	CITATIONS
37	Micro-spectroscopic study of the degradation of scandia and ceria stabilized zirconia electrolytes in solid oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13051-13058.	3.8	39
38	EPR and optical study of Ni ²⁺ ions in CsCaF ₃ and CsCdF ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 1994, 55, 263-272.	1.9	38
39	Aligned ZrO ₂ (c)-CaZrO ₃ eutectics grown by the laser floating zone method: Electrical and optical properties. <i>Advanced Materials</i> , 1996, 8, 909-912.	11.1	38
40	Vibrational spectroscopy of single crystals. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 7501-7510.	0.7	37
41	Hydrothermal synthesis of Co-doped willemite powders with controlled particle size and shape. <i>Journal of the European Ceramic Society</i> , 2005, 25, 3165-3172.	2.8	37
42	Stability of Channeled Ni-YSZ Cermets Produced from Self-Assembled NiO-YSZ Directionally Solidified Eutectics. <i>Journal of the American Ceramic Society</i> , 2005, 88, 3215-3217.	1.9	37
43	Optical absorption and selective thermal emission in directionally solidified Al ₂ O ₃ -Er ₃ Al ₅ O ₁₂ and Al ₂ O ₃ -Er ₃ Al ₅ O ₁₂ -ZrO ₂ eutectics. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2587-2596.	2.8	37
44	Eutectic epsilon-near-zero metamaterial terahertz waveguides. <i>Optics Letters</i> , 2013, 38, 1140.	1.7	36
45	Optical properties of cation colloidal particles in CaF ₂ and SrF ₂ . <i>Physica Status Solidi A</i> , 1977, 44, 717-723.	1.7	33
46	Spectroscopic characterization of Er ³⁺ in stabilized zirconia single crystals. <i>Journal of Physics Condensed Matter</i> , 1991, 3, 8491-8502.	0.7	33
47	Prospects of new planar optical waveguides based on eutectic microcomposites of insulating crystals: The ZrO ₂ (c)-CaZrO ₃ erbium doped system. <i>Applied Physics Letters</i> , 1997, 71, 2746-2748.	1.5	33
48	Paramagnetic electron traps in reduced stabilized zirconia. <i>Physical Review B</i> , 1995, 52, 6150-6153.	1.1	32
49	Spectroscopic Studies on the Localization of Vanadium(IV) in Vanadium-Doped Zircon Pigments. <i>Journal of the American Ceramic Society</i> , 1998, 81, 395-400.	1.9	32
50	Anode-supported microtubular cells fabricated with gadolinia-doped ceria nanopowders. <i>Journal of Power Sources</i> , 2011, 196, 1184-1190.	4.0	32
51	Growth of Al ₂ O ₃ /ZrO ₂ (Y ₂ O ₃) eutectic rods by the laser floating zone technique: effect of the rotation. <i>Journal of the European Ceramic Society</i> , 2005, 25, 1341-1350.	2.8	31
52	Synthesis, Structural Characterization, and Spectroscopic Studies of Heterodimetallic [NBu ₄][(C ₆ F ₅) ₃ Pt(μ-Pb)(μ-X)Pt(C ₆ F ₅) ₃] (X = Cl, OH) Complexes. <i>Inorganic Chemistry</i> , 1995, 34, 6514-6519.	1.9	30
53	Raman spectroscopy studies of apatite-type germanate oxide ion conductors: correlation with interstitial oxide ion location and conduction. <i>Journal of Materials Chemistry</i> , 2010, 20, 2170.	6.7	30
54	Optical properties of Gd ³⁺ in fluorozirconate glasses. <i>Journal of Luminescence</i> , 1988, 39, 275-282.	1.5	29

#	ARTICLE	IF	CITATIONS
55	Microstructure and Physical Properties of CaF ₂ -MgO Eutectics Produced by the Bridgman Method. Journal of Materials Research, 2000, 15, 1314-1319.	1.2	29
56	Self-Supporting Thin Yttria-Stabilised Zirconia Electrolytes for Solid Oxide Fuel Cells Prepared by Laser Machining. Journal of the Electrochemical Society, 2011, 158, B1193.	1.3	29
57	Microtubular solid oxide fuel cells with lanthanum strontium manganite infiltrated cathodes. International Journal of Hydrogen Energy, 2015, 40, 5469-5474.	3.8	29
58	Persistence of short range order in the fluid phases of a mesogen copper complex studied by EPR. Liquid Crystals, 1993, 13, 585-596.	0.9	27
59	Axial anisotropy of Co ²⁺ in CdSe from the magnetization step and EPR. Physical Review B, 1995, 51, 15211-15217.	1.1	27
60	Ceramics with photonic and optical applications. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2015, 54, 1-10.	0.9	27
61	Characterization of laser-processed thin ceramic membranes for electrolyte-supported solid oxide fuel cells. International Journal of Hydrogen Energy, 2017, 42, 13939-13948.	3.8	27
62	Spectroscopy of chromium (III) in yttrium-stabilized ZrO ₂ . Journal of Physics and Chemistry of Solids, 1989, 50, 1185-1191.	1.9	26
63	The Preparation of CdS Particles in Silica Glasses by a Sol-Gel Method. Journal of Solid State Chemistry, 1995, 118, 1-5.	1.4	26
64	Interacting plasmon and phonon polaritons in aligned nano- and microwires. Optics Express, 2012, 20, 10879.	1.7	26
65	Thermogravimetry and neutron thermodiffractometry studies of the H-YBa ₂ Cu ₃ O ₇ system. Journal of the Less Common Metals, 1990, 157, 233-244.	0.9	25
66	Structural and optical properties of yttria-stabilized-zirconia films grown by MOCVD. Thin Solid Films, 2000, 370, 173-178.	0.8	25
67	Cr ⁺ and Cr ³⁺ defects in CaF ₂ and SrF ₂ . Physical Review B, 1985, 32, 4158-4163.	1.1	24
68	Directionally solidified calcia stabilised zirconia-nickel oxide plates in anode supported solid oxide fuel cells. Journal of the European Ceramic Society, 2004, 24, 1349-1353.	2.8	24
69	Superplastic deformation of directionally solidified nanofibrillar Al ₂ O ₃ -Y ₃ Al ₅ O ₁₂ -ZrO ₂ eutectics. Journal of the European Ceramic Society, 2013, 33, 2579-2586.	2.8	24
70	Optical detection of a hydrogen complex responsible for the F phosphorescence in thermochemically reduced MgO crystals. Physical Review B, 1987, 36, 6120-6124.	1.1	23
71	Correlation between intrinsic electron traps and electrical conductivity in stabilized zirconia. Solid State Ionics, 1995, 76, 97-102.	1.3	23
72	Preparation by hydrolysis of aerosols and colour properties of Cr-doped and Co-doped zircon powders. Journal of the European Ceramic Society, 1998, 18, 821-830.	2.8	23

#	ARTICLE	IF	CITATIONS
73	Concentration and temperature dependence of Nd ³⁺ luminescence in LaGaO ₃ . Journal of Luminescence, 2000, 86, 147-153.	1.5	23
74	Long-term Stability Studies of Anode-supported Microtubular Solid Oxide Fuel Cells. Fuel Cells, 2013, 13, 1116-1122.	1.5	22
75	Electrochemical performance of intermediate temperature micro-tubular solid oxide fuel cells using porous ceria barrier layers. Ceramics International, 2015, 41, 7651-7660.	2.3	22
76	Thermally generated [Li] ⁰ centers in CaO. Physical Review B, 1980, 21, 1258-1263.	1.1	21
77	Continuous-wave and pulsed EPR studies of Cr ²⁺ defects in CaF ₂ . Physical Review B, 1996, 53, 3047-3054.	1.1	21
78	Broadband laser tunability of Nd ³⁺ ions in 0.8CaSiO ₃ -0.2Ca ₃ (PO ₄) ₂ eutectic glass. Optics Express, 2009, 17, 4382.	1.7	21
79	Development of a macroporous ceramic passive sampler for the monitoring of cytostatic drugs in water. Chemosphere, 2017, 182, 681-690.	4.2	21
80	Optical properties of ZnF ₂ -CdF ₂ glasses doped with 4f ions. Materials Research Bulletin, 1991, 26, 741-748.	2.7	20
81	Magnetic susceptibility of NdGaO ₃ at low temperatures: A quasi-two-dimensional Ising behavior. Physical Review B, 1998, 58, 798-804.	1.1	20
82	Piezo-spectroscopy at low temperatures: residual stresses in Al ₂ O ₃ -ZrO ₂ (Y ₂ O ₃) eutectics measured from 77 to 350 K. Acta Materialia, 2002, 50, 4677-4686.	3.8	20
83	NaCl-assisted growth of micrometer-wide long single crystalline fluoride fibres. Optical Materials, 2005, 27, 1726-1729.	1.7	19
84	Porous crystal structures obtained from directionally solidified eutectic precursors. Journal of Crystal Growth, 2007, 300, 387-393.	0.7	19
85	Optical and electron paramagnetic resonance characterization of Dy ³⁺ in YSZ single crystals. Journal of Physics and Chemistry of Solids, 1997, 58, 1579-1585.	1.9	18
86	Ni-YSZ cermet micro-tubes with textured surface. Journal of the European Ceramic Society, 2009, 29, 85-90.	2.8	18
87	Luminescence of tetrahedrally coordinated Co ²⁺ in zirconia. Journal of Physics Condensed Matter, 1993, 5, 3717-3726.	0.7	17
88	Crystallography and thermal stability of textured Co-YSZ cermets from eutectic precursors. Journal of the European Ceramic Society, 2008, 28, 2325-2329.	2.8	17
89	Indentation Damage and Residual Stress Field in Alumina ₂ O ₃ -Stabilized Zirconia Composites. Journal of the American Ceramic Society, 2009, 92, 152-160.	1.9	17
90	Charge-transfer salts with mononuclear and dinuclear ylide gold(I) complexes: x-ray structure of [Au(CH ₂ PPh ₃) ₂](TCNQ) (TCNQ = 7,7,8,8-tetracyanoquinodimethane). Journal of Organometallic Chemistry, 1996, 506, 203-210.	0.8	16

#	ARTICLE	IF	CITATIONS
91	Structure of the Jahn-Teller distorted Cr ²⁺ -defect in SrF ₂ :Cr by electron-spin-echo envelope modulation. <i>Physical Review B</i> , 1996, 54, 12099-12108.	1.1	16
92	Compositionally graded YSZ-NiO composites by surface laser melting. <i>Journal of the European Ceramic Society</i> , 2010, 30, 147-152.	2.8	16
93	Processing, microstructure and optical properties of the directionally solidified Al ₂ O ₃ -EuAlO ₃ eutectic rods. <i>Journal of Crystal Growth</i> , 2012, 360, 123-126.	0.7	16
94	New polaritonic materials in the THz range made of directionally solidified halide eutectics. <i>Journal of the European Ceramic Society</i> , 2014, 34, 2061-2069.	2.8	16
95	Photothermal bleaching of Ca colloids in additively colored CaF ₂ . <i>Solid State Communications</i> , 1978, 27, 1109-1112.	0.9	15
96	Imprinting of slip bands in mechanically deformed MgO crystals using lithium impurities. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1980, 41, 431-441.	0.8	15
97	X-ray and Raman study of the low temperature NH ₄ MnF ₃ structure; evidence of librational motion of the NH ₄ ⁺ ion. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 283-300.	0.7	15
98	Cold laser machining of nickel-yttrium stabilised zirconia cermets: Composition dependence. <i>Materials Research Bulletin</i> , 2009, 44, 1910-1915.	2.7	15
99	Textured cermets of CeO ₂ (or GDC) with Co for solid oxide fuel cells anodes. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11499-11504.	3.8	15
100	Influence of 3d Ions on the Production Efficiency of Intrinsic Defects in CaF ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 1980, 99, 585-591.	0.7	14
101	Optical detection of metastable H ₂ ⁺ defects and photoconversion of anion vacancies in thermochemically reduced CaO crystals. <i>Physical Review B</i> , 1987, 36, 1244-1247.	1.1	14
102	Raman study of superconducting Nd _{2-x} Ce _x CuO _{4-y} single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1990, 168, 161-166.	0.6	14
103	The optical properties of the Nd ³⁺ -ion in NdGaO ₃ and LaGaO ₃ :Nd: temperature and concentration dependence. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 9657-9673.	0.7	14
104	Spectroscopic properties and frequency upconversion of Er ³⁺ -doped 0.8CaSiO ₃ -0.2Ca ₃ (PO ₄) ₂ eutectic glass. <i>Optical Materials</i> , 2009, 31, 1105-1108.	1.7	14
105	SOFC mini-tubulares basadas en YSZ. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2008, 47, 189-195.	0.9	14
106	Stress Corrosion Cracking of Single-Crystal Tetragonal ZrO ₂ (Er ₂ O ₃). <i>Journal of the American Ceramic Society</i> , 2005, 88, 3125-3130.	1.9	13
107	Near infrared to visible upconversion of Er ³⁺ in CaZrO ₃ /CaSZ eutectic crystals with ordered lamellar microstructure. <i>Journal of Luminescence</i> , 2009, 129, 1422-1427.	1.5	13
108	Sub-threshold [Li] ⁰ formation and decoration of strained regions in crystalline MgO. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1981, 44, 63-72.	0.8	12

#	ARTICLE	IF	CITATIONS
109	Orientation relationship and interfaces in nonfaceted-nonfaceted $ZrO_2(c) \text{--} CaZrO_3$ lamellar eutectics. <i>Journal of Materials Research</i> , 1999, 14, 2588-2593.	1.2	12
110	A New Approach to Obtain Strip-Structured Biepitaxial $YBa_2Cu_3O_{7-\delta}$ Films by Using Ca-Stabilized Zirconia- $CaZrO_3$ Eutectic Substrates. <i>Advanced Materials</i> , 2000, 12, 116-119.	11.1	12
111	Laser spectroscopy of Nd^{3+} ions in glasses with the $0.8CaSiO_3 \text{--} 0.2Ca_3(PO_4)_2$ eutectic composition. <i>Optical Materials</i> , 2009, 31, 1319-1322.	1.7	11
112	Redox behaviour of Gd-doped ceria-nickel oxide composites. <i>Journal of Power Sources</i> , 2009, 192, 180-184.	4.0	11
113	Directionally solidified $Al_2O_3 \text{--} Yb_3Al_5O_{12}$ eutectics for selective emitters. <i>Solar Energy Materials and Solar Cells</i> , 2016, 144, 405-410.	3.0	11
114	EPR study of a lithium-hydrogen complex in X-irradiated $MgO:Li$. <i>Journal of Physics C: Solid State Physics</i> , 1983, 16, 783-789.	1.5	10
115	Reorientation of V- and (Li)O defects in MgO studied by EPR. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 67-76.	1.5	10
116	Dynamical features of a hydrogen-lithium complex in $MgO:Li$ studied by EPR. <i>Physical Review B</i> , 1986, 33, 3058-3063.	1.1	10
117	YSZ Thin Films Deposited on NiO-CSZ Anodes by Pulsed Injection MOCVD for Intermediate Temperature-SOFC Applications. <i>Chemical Vapor Deposition</i> , 2004, 10, 249-252.	1.4	10
118	EPR and ENDOR investigation of the [FLi]O center in CaO . <i>Physical Review B</i> , 1981, 23, 51-56.	1.1	9
119	The enhanced Raman scattering of phonons in CaF_2 and MgO samples containing Ca and Li colloids. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 9647-9657.	0.7	9
120	Magnetic exchange effects in nematogenic Schiff's base $Cu(II)$ complexes. An EPR study. <i>Liquid Crystals</i> , 1995, 19, 603-613.	0.9	9
121	Static and dynamical properties of $D_0i(Li)$ in $MgO:Li$ studied by EPR: Isotope effects. <i>Journal of Chemical Physics</i> , 1988, 88, 2976-2980.	1.2	8
122	Site resolution spectroscopy of Nd^{3+} in Yttrium Stabilized Zirconia. <i>Solid State Communications</i> , 1993, 88, 435-438.	0.9	8
123	Cation-radical salts with organometallic gold anions. X-ray structure of $[TTFPh]_2[Au(C_6F_5)_2]$. <i>Synthetic Metals</i> , 1998, 92, 245-251.	2.1	8
124	Microstructure-size dependence of the $1.520 \mu m$ Er^{3+} luminescence lifetime in $Al_2O_3 \text{--} ZrO_2$ eutectic melt growth composites. <i>Applied Physics Letters</i> , 2002, 80, 589-591.	1.5	8
125	Ni-GDC microtubular cermets. <i>Solid State Ionics</i> , 2009, 180, 784-787.	1.3	8
126	Mechanical properties of highly textured porous $Ni \text{--} YSZ$ and $Co \text{--} YSZ$ cermets produced from directionally solidified eutectics. <i>Ceramics International</i> , 2011, 37, 3123-3131.	2.3	8

#	ARTICLE	IF	CITATIONS
127	Temperature dependence of the Cs colloids absorption bands. Solid State Communications, 1980, 33, 151-154.	0.9	7
128	Optical and EPR Studies of NH_4MnF_3 above 80 K. Physica Status Solidi (B): Basic Research, 1982, 109, K81.	0.7	7
129	Non-cubic Mn^{2+} -centers in BaF_2 . Solid State Communications, 1984, 50, 665-667.	0.9	7
130	A new EPR study of the OH_2^{\sim} molecular ion in CaO. Journal of Chemical Physics, 1986, 85, 4254-4260.	1.2	7
131	Superhyperfine structure of the H_2^{\sim} ion in MgO. Physical Review B, 1987, 36, 5576-5577.	1.1	7
132	Electron and hole trapped defects produced by thermoreduction or irradiation in Stabilized Zirconia. Radiation Effects and Defects in Solids, 1991, 119-121, 907-912.	0.4	7
133	An electron paramagnetic resonance study of the tetragonally distorted ion in and. Journal of Physics Condensed Matter, 1996, 8, 7179-7190.	0.7	7
134	Orientation relationship and interfaces in Ni and Co-YSZ cermets prepared from directionally solidified eutectics. Open Physics, 2009, 7, .	0.8	7
135	Solid-particle erosion of directionally solidified $\text{Al}_2\text{O}_3\text{-ZrO}_2$ (Y_2O_3) eutectics. Wear, 2010, 268, 571-578.	1.5	7
136	Directionally Solidified $\text{Al}_2\text{O}_3\text{-O}_3\text{-Er}_3$ Eutectic Ceramics with Interpenetrating or Nanofibrillar Microstructure: Residual Stress Analysis. Journal of the American Ceramic Society, 2012, 95, 1138-1146.	1.9	7
137	Anomalous temperature dependence of the EPR linewidth of tetraethylammonium iron (III) tetrachloride, $(\text{C}_2\text{H}_5)_4\text{NFeCl}_4$. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 98, 374-376.	0.9	6
138	Thermoluminescence of low-temperature X-irradiated MgO and MgO:Li single crystals. Physica Status Solidi A, 1983, 75, 577-582.	1.7	6
139	EPR and thermoluminescence studies in RT X-irradiated CaO single crystals. Journal of Physics C: Solid State Physics, 1986, 19, 4763-4769.	1.5	6
140	Tetragonally distorted Cr^{2+} ions in BaF_2 and SrCl_2 studied by ESEEM spectroscopy. Applied Magnetic Resonance, 1998, 15, 155-168.	0.6	6
141	High-temperature mechanical properties of porous NaMgF_3 derived from directionally solidified $\text{NaMgF}_3\text{-NaF}$ eutectics. Journal of the European Ceramic Society, 2008, 28, 2451-2457.	2.8	6
142	Directionally solidified CeO_2 (or GDC)/ CoO eutectic ceramics as cermet precursors for SOFCs anodes: Microstructure cross-over. Journal of the European Ceramic Society, 2011, 31, 1269-1276.	2.8	6
143	Fibrillar $\text{Mn}_3\text{O}_4\text{-YMnSz}$ well-ordered eutectics with potential functional applications. Journal of the European Ceramic Society, 2015, 35, 909-918.	2.8	6
144	Dynamical effects on the electronic spin relaxation of an off-centre interstitial hydrogen in SrF_2 and BaF_2 . Journal of Physics and Chemistry of Solids, 1996, 57, 1861-1867.	1.9	5

#	ARTICLE	IF	CITATIONS
145	Optical absorption spectrum of X-irradiated CaF ₂ :Cr and SrF ₂ :Cr. Solid State Communications, 1986, 58, 79-81.	1.7	5
146	Design and characterization of macroporous alumina membranes for passive samplers of water contaminants. Journal of the European Ceramic Society, 2018, 38, 1853-1859.	2.8	5
147	Resolidificación superficial de eutácticos Al ₂ O ₃ -YSZ asistida por láser. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2004, 43, 855-862.	0.9	5
148	Cubic and trigonal Cr ³⁺ defects in SrCl ₂ :Cr. Journal of Physics C: Solid State Physics, 1986, 19, 607-613.	1.5	4
149	Optical absorption spectrum of X-irradiated CaF ₂ :Cr and SrF ₂ :Cr. Solid State Communications, 1986, 58, 79-81.	0.9	4
150	The effect of the reorientation of Hf ³⁺ defects in MgO on the ²⁵ Mg superhyperfine structure. Journal of Physics C: Solid State Physics, 1987, 20, 5177-5186.	1.5	4
151	[Hf ³⁺] defect in thermochemically reduced CaO: A static and dynamical EPR study. Physical Review B, 1990, 42, 7604-7609.	1.1	4
152	Electron Paramagnetic Resonance as a Tool for Monitoring Overexpression in Escherichia coli of Fully Functional Flavodoxin. Analytical Biochemistry, 1994, 218, 255-258.	1.1	4
153	EPR anisotropy induced by a magnetic field in the smectic A phase of a mesogenic Cu(II) complex derived from a Schiff's base. Liquid Crystals, 1999, 26, 649-655.	0.9	4
154	Redox behaviour and ageing of GDC-Co cermets: A comparison between lamellar and conventional cermets. Solid State Ionics, 2012, 226, 30-36.	1.3	4
155	Resolidificación con láser de barreras térmicas de circonita depositadas por proyección térmica plasma (APS). Boletín De La Sociedad Española De Cerámica Y Vidrio, 2004, 43, 925-928.	0.9	4
156	The effect of lithium impurity on flow stress in MgO. Physica Status Solidi A, 1981, 65, 293-300.	1.7	3
157	Magneto-optical properties of metallic colloids in insulators. Physical Review B, 1981, 24, 1159-1163.	1.1	3
158	A Mn ²⁺ center in SrCl ₂ . Radiation Effects, 1984, 83, 213-217.	0.4	3
159	Hf ³⁺ (Li) and Dy ³⁺ (Li) defects in CaO studied by EPR: Reorientational and vibrational features. Physical Review B, 1989, 39, 7928-7937.	1.1	3
160	Oxide thin film deposition on eutectic substrates. Thin Solid Films, 2002, 405, 87-91.	0.8	3
161	Experience and lessons learnt in the design, fabrication and deployment of ceramic passive sampler for contaminant monitoring in water. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2021, , .	0.9	3
162	A new type of F ₃ -centre in additively coloured CaF ₂ . Physica Status Solidi (B): Basic Research, 1978, 85, 283-290.	0.7	2

#	ARTICLE	IF	CITATIONS
163	Thermoluminescence of X-Irradiated CaO and CaO:Li Single Crystals. Physica Status Solidi A, 1983, 77, 625-631.	1.7	2
164	Enhanced raman scattering of phonons in CaF ₂ and MgO containing Ca and Li colloids. Radiation Effects and Defects in Solids, 1995, 137, 99-103.	0.4	2
165	EPR of jahn-teller Cf ²⁺ in CaF ₂ , BaF ₂ and SrCl ₂ . Radiation Effects and Defects in Solids, 1995, 135, 179-182.	0.4	2
166	Electromagnetic response of anisotropic eutectic metamaterials in THz range. , 2010, , .		2
167	Phase Distribution, Residual Stresses and Mechanical Properties of Melt Growth Al ₂ O ₃ -ZrO ₂ (Y ₂ O ₃) Eutectics. Ceramic Engineering and Science Proceedings, 0, , 663-670.	0.1	2
168	On the influence of light on cesium colloids in cesium halides. Solid State Communications, 1982, 41, 601-603.	0.9	1
169	A study of caesium colloids in additively coloured CsF. Journal Physics D: Applied Physics, 1983, 16, 89-94.	1.3	1
170	The saturation behaviour of the EPR lines of the motional defect Hi ₀ (Li) in MgO. Journal of Physics C: Solid State Physics, 1988, 21, 2941-2950.	1.5	1
171	EPR study of defect reorientation by a tunneling-controlled process. Physical Review B, 1990, 42, 7754-7760.	1.1	1
172	Ionic Relaxation around the Jahn-Teller Distorted Cr ²⁺ Ion in SrF ₂ :Cr Studied by ESEEM*. Zeitschrift Fur Physikalische Chemie, 1997, 201, 75-82.	1.4	1
173	Directionally Solidified Eutectic Oxide Ceramics. , 2005, , 1-9.		1
174	Upconversion processes of Er ³⁺ in ZrO ₂ -CaO eutectic crystals. , 2008, , .		1
175	High Efficiency Reversible Solid Oxide Microtubular Fuel Cells. ECS Transactions, 2009, 25, 865-872.	0.3	1
176	Fabrication and Microstructure of Self-Supporting Thin Ceramic Electrolytes Prepared by Laser Machining. ECS Transactions, 2015, 68, 2129-2139.	0.3	1
177	High Temperature Creep Deformation of Al ₂ O ₃ -Based Eutectic Ceramics Grown by the Laser Heated Float Zone Method. Ceramic Engineering and Science Proceedings, 0, , 101-112.	0.1	1
178	Ni and Co-ZrO ₂ Composites Produced by Laser Zone Melting. Ceramic Engineering and Science Proceedings, 0, , 181-186.	0.1	1
179	F ²⁺ Centers in CsF. Physica Status Solidi (B): Basic Research, 1982, 113, K61.	0.7	0
180	F and F ⁺ luminescence in thermochemically reduced MgO crystals. Journal of Luminescence, 1988, 40-41, 325-326.	1.5	0

#	ARTICLE	IF	CITATIONS
181	Radiation effects in ZnF ₂ -CdF ₂ based glasses. Materials Research Bulletin, 1991, 26, 1019-1025.	2.7	0
182	Hydrogen defect dynamics studied by EPR. isotope and quantum effects. Radiation Effects and Defects in Solids, 1991, 119-121, 37-42.	0.4	0
183	EPR study of the [H ⁺ Ca] defect in Tcr CaO. Radiation Effects and Defects in Solids, 1991, 119-121, 945-950.	0.4	0
184	High-Temperature Tensile Strength of Er ₂ O ₃ -Doped ZrO ₂ Single Crystals. Journal of the American Ceramic Society, 2006, 89, 060427083300077-???	1.9	0
185	Self-Supported Thin Yttria-Stabilized Zirconia Electrolytes for Solid Oxide Fuel Cells Prepared by Laser Machining. ECS Transactions, 2011, 35, 1193-1202.	0.3	0
186	Eutectic terahertz metamaterials. , 2013, , .		0
187	Directionally-Solidified Eutectic Oxide Ceramics. , 2016, , .		0
188	Degradaci3n ambiental de las propiedades mec3nicas de fibras monocristalinas de circonita dopada con erbia. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2007, 46, 131-137.	0.9	0
189	Structured YBa ₂ Cu ₃ O _{7-δ} thin films grown on aligned calcium stabilized zirconia-calcium zirconate lamellar eutectic substrates. European Physical Journal Special Topics, 1999, 09, Pr8-307-Pr8-311.	0.2	0
190	Directionally-Solidified Eutectic Oxide Ceramics. , 2016, , 216-224.		0