

Ana Isabel Becerro

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91
papers

1,839
citations

24
h-index

38
g-index

97
ext. papers

2,092
ext. citations

4.2
avg, IF

4.67
L-index

#	Paper	IF	Citations
91	Monoclinic/Tetragonal Heterostructured BiVO ₄ by Yttrium Doping with Improved Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 24479-24484	3.8	117
90	Rare earth based nanostructured materials: synthesis, functionalization, properties and bioimaging and biosensing applications. <i>Nanophotonics</i> , 2017 , 6, 881-921	6.3	94
89	Synthesis and properties of multifunctional tetragonal Eu:GdPO ₄ nanocubes for optical and magnetic resonance imaging applications. <i>Inorganic Chemistry</i> , 2013 , 52, 647-54	5.1	86
88	Phase transitions in Ca _{1-x} Sr _x TiO ₃ perovskites: effects of composition and temperature. <i>Journal of Materials Chemistry</i> , 2000 , 10, 1609-1615		81
87	Thermal Expansion of Rare-Earth Pyrosilicates. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2298-2305	3.85	71
86	Oxygen vacancy ordering in CaTiO ₃ /CaFeO _{2.5} perovskites: From isolated defects to infinite sheets. <i>Phase Transitions</i> , 1999 , 69, 133-146	1.3	63
85	Short-range ordering of oxygen vacancies in CaFe _x Ti _{1-x} O ₃ perovskites (0 < x < 1). <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 2969-2984	1.8	55
84	Perfectly Transparent Sr ₃ Al ₂ O ₆ Polycrystalline Ceramic Elaborated from Glass Crystallization. <i>Chemistry of Materials</i> , 2013 , 25, 4017-4024	9.6	49
83	Pore structure analysis of the mesoporous titanosilicate molecular sieve MCM-41 by ¹ H NMR and N ₂ sorption. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 849		49
82	Revisiting Y ₂ Si ₂ O ₇ and Y ₂ Si ₅ O ₅ polymorphic structures by 89Y MAS-NMR spectroscopy. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 2783-2789	3.3	46
81	A Novel 3D Architecture of GdPO ₄ Nanophosphors: Multicolored and White Light Emission. <i>Crystal Growth and Design</i> , 2013 , 13, 526-535	3.5	45
80	Micro-Raman study of perovskites in the CaTiO ₃ /BrTiO ₃ system. <i>Dalton Transactions RSC</i> , 2002 , 3751-3755		45
79	Bifunctional, Monodisperse BiPO ₄ -Based Nanostars: Photocatalytic Activity and Luminescent Applications. <i>Crystal Growth and Design</i> , 2014 , 14, 3319-3326	3.5	41
78	Synthesis of MCM-22 zeolites of different Si/Al ratio and their structural, morphological and textural characterisation. <i>Microporous and Mesoporous Materials</i> , 2009 , 118, 1-10	5.3	37
77	New Single-Phase, White-Light-Emitting Phosphors Based on Gd ₂ Si ₂ O ₇ for Solid-State Lighting. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18035-18043	3.8	33
76	Morphology control of uniform CaMoO ₄ microarchitectures and development of white light emitting phosphors by Ln doping (Ln = Dy ³⁺ , Eu ³⁺). <i>CrystEngComm</i> , 2017 , 19, 1590-1600	3.3	31
75	Hydrothermal Chemistry of Silicates: Low-Temperature Synthesis of γ-Yttrium Disilicate. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1592-1594	3.8	31

74	Ionic and electronic conductivity in $\text{CaTi}_{1-x}\text{FexO}_3$ ($x=0.10.3$). <i>Ionics</i> , 1999 , 5, 385-392	2.7	30
73	Ligand-Free Synthesis of Tunable Size Ln:BaGdF ($\text{Ln} = \text{Eu}^{3+}$ and Nd^{3+}) Nanoparticles: Luminescence, Magnetic Properties, and Biocompatibility. <i>Langmuir</i> , 2016 , 32, 411-20	4	29
72	The hydrothermal conversion of kaolinite to kalsilite: Influence of time, temperature, and pH. <i>American Mineralogist</i> , 2009 , 94, 1672-1678	2.9	26
71	Revision of the crystallographic data of polymorphic $\text{Y}_2\text{Si}_2\text{O}_7$ and Y_2SiO_5 compounds. <i>Phase Transitions</i> , 2004 , 77, 1093-1102	1.3	26
70	The transition from short-range to long-range ordering of oxygen vacancies in $\text{CaFexTi}_{1-x}\text{O}_3$ /2 perovskites. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 3933-3941	3.6	26
69	Structure-directing effect of phyllosilicates on the synthesis of $\gamma\text{-Y}_2\text{Si}_2\text{O}_7$. Phase transitions in $\text{Y}_2\text{Si}_2\text{O}_7$. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1835		25
68	Inherent Acidity of Aqua Metal Ions in Solids: An Assay in Layered Aluminosilicates. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 3996-4001	3.4	24
67	HoF_3 and DyF_3 Nanoparticles as Contrast Agents for High-Field Magnetic Resonance Imaging. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700116	3.1	22
66	Solid solubility of $\text{Yb}_2\text{Si}_2\text{O}_7$ in $\text{Y}_2\text{Si}_2\text{O}_7$ and $\text{Er}_2\text{Si}_2\text{O}_7$. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 1882-1889	3.3	22
65	High-resolution ^1H MAS NMR spectra of 2:1 phyllosilicates. <i>Chemical Communications</i> , 2000 , 37-38	5.8	22
64	Europium-doped $\text{NaGd}(\text{WO})$ nanophosphors: synthesis, luminescence and their coating with fluorescein for pH sensing. <i>Dalton Transactions</i> , 2017 , 46, 11575-11583	4.3	21
63	Chemical Behavior of Lithium Ions in Reexpanded Li Montmorillonites. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 2207-2213	3.4	21
62	Transparent polycrystalline $\text{SrREGa}_3\text{O}_7$ melilite ceramics: potential phosphors for tuneable solid state lighting. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3238-3247	7.1	20
61	The Structures of Complexes of a Vermiculite Intercalated by Cationic Surfactants, a Mixture of Cationic Surfactants, and a Mixture of Cationic and Nonionic Surfactants. <i>Journal of Colloid and Interface Science</i> , 2002 , 256, 314-324	9.3	20
60	XRD and ^{29}Si MAS-NMR spectroscopy across the $\text{Lu}_2\text{Si}_2\text{O}_7\text{Er}_2\text{Si}_2\text{O}_7$ solid solution. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 1-7	3.3	20
59	Crystal Structure and Luminescent Properties of Eu^{3+} -Doped $\text{A-La}_2\text{Si}_2\text{O}_7$ Tetragonal Phase Stabilized by Spray Pyrolysis Synthesis. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20876-20886	3.8	19
58	Polymorphism in the $\text{Sc}_2\text{Si}_2\text{O}_7\text{Er}_2\text{Si}_2\text{O}_7$ system. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 1436-1445	3.3	19
57	Structural study of the $\text{Lu}_2\text{Si}_2\text{O}_7\text{Er}_2\text{Si}_2\text{O}_7$ system. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 464-469	3.9	19

56	Revealing Structural Detail in the High Temperature La ₂ Si ₂ O ₇ /Y ₂ Si ₂ O ₇ Phase Diagram by Synchrotron Powder Diffraction and Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21523-21535	3.8	18
55	Application of ²⁹ Si and ²⁷ Al MAS NMR spectroscopy to the study of the reaction mechanism of kaolinite to illite/muscovite. <i>Clays and Clay Minerals</i> , 2009 , 57, 302-310	2.1	18
54	Stability of phyllosilicates in Ca(OH) ₂ solution: Influence of layer nature, octahedral occupation, presence of tetrahedral Al and degree of crystallinity. <i>Applied Geochemistry</i> , 2009 , 24, 1251-1260	3.5	17
53	Revealing the substitution mechanism in Eu ³⁺ :CaMoO ₄ and Eu ³⁺ ,Na ⁺ :CaMoO ₄ phosphors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12830-12840	7.1	17
52	Hydrothermal Synthesis of Kalsilite: A Simple and Economical Method. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2204-2206	3.8	15
51	Synthesis, functionalization and properties of uniform europium-doped sodium lanthanum tungstate and molybdate (NaLa(XO), X = Mo,W) probes for luminescent and X-ray computed tomography bioimaging. <i>Journal of Colloid and Interface Science</i> , 2019 , 554, 520-530	9.3	14
50	Structural and kinetic study of phase transitions in LaYSi ₂ O ₇ . <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2477-2486	6	14
49	Local Disorder and Tunable Luminescence in SrAlSiO (0.2 ≤ x ≤ 0.5) Transparent Ceramics. <i>Inorganic Chemistry</i> , 2017 , 56, 14446-14458	5.1	14
48	Polymorphism in the Lu ₂ Y _x Si ₂ O ₇ system at high temperatures. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 2293-2299	6	14
47	Displacive phase transitions and spontaneous strains in oxygen deficient CaFexTi _{1-x} O _{3-x/2} perovskites (0 ≤ x ≤ 0.40). <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 3661-3670	1.8	14
46	Mineralogical stability of phyllosilicates in hyperalkaline fluids: Influence of layer nature, octahedral occupation and presence of tetrahedral Al. <i>American Mineralogist</i> , 2009 , 94, 1187-1197	2.9	13
45	Phase Transitions in Lu-Doped Y ₂ Si ₂ O ₇ at High Temperatures. <i>Chemistry of Materials</i> , 2005 , 17, 112-117	9.6	13
44	Displacive Phase Transitions in and Strain Analysis of Fe-Doped CaTiO ₃ Perovskites at High Temperatures by Neutron Diffraction. <i>Journal of Solid State Chemistry</i> , 2002 , 167, 459-471	3.3	13
43	Photonic Tuning of the Emission Color of Nanophosphor Films Processed at High Temperature. <i>Advanced Optical Materials</i> , 2017 , 5, 1700099	8.1	12
42	From structure to luminescence investigation of oxyfluoride transparent glasses and glass-ceramics doped with Eu ³⁺ /Dy ³⁺ ions. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 1410-1418	5.7	12
41	Crystal structures and photoluminescence across the La ₂ Si ₂ O ₇ -Ho ₂ Si ₂ O ₇ system. <i>Inorganic Chemistry</i> , 2013 , 52, 13469-79	5.1	12
40	Structural elucidation of E(Y,Sc) ₂ Si ₂ O ₇ : combined use of ⁸⁹ Y MAS NMR and powder diffraction. <i>Journal of Applied Crystallography</i> , 2011 , 44, 846-852	3.8	12
39	Enhancing Luminescence and X-ray Absorption Capacity of Eu ³⁺ :LaF ₃ Nanoparticles by Bi ³⁺ Codoping. <i>ACS Omega</i> , 2019 , 4, 765-774	3.9	12

38	Biocompatibility assessment of up-and down-converting nanoparticles: implications of interferences with in vitro assays. <i>Methods and Applications in Fluorescence</i> , 2018 , 7, 014001	3.1	12
37	Uniform, luminescent Eu:LuF ₃ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	11
36	Quick synthesis, functionalization and properties of uniform, luminescent LuPO ₄ -based nanoparticles. <i>RSC Advances</i> , 2015 , 5, 34517-34524	3.7	11
35	Room temperature synthesis of water-dispersible Ln:CeF (Ln = Nd, Tb) nanoparticles with different morphology as bimodal probes for fluorescence and CT imaging. <i>Journal of Colloid and Interface Science</i> , 2018 , 520, 134-144	9.3	10
34	Hard mode infrared spectroscopy of CaTiO ₃ /CaFeO _{2.5} perovskites. <i>Phase Transitions</i> , 2000 , 71, 161-172	1.3	9
33	Ionic and electronic conductivity in CaTi _{0.9} Fe _{0.1} O ₃ . <i>Phase Transitions</i> , 1999 , 69, 157-168	1.3	9
32	Persistent luminescence of transparent ZnGa ₂ O ₄ :Cr ³⁺ thin films from colloidal nanoparticles of tunable size. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4474-4485	7.1	9
31	Crystal structure, NIR luminescence and X-ray computed tomography of Nd:BaLuF nanospheres. <i>Dalton Transactions</i> , 2017 , 46, 6580-6587	4.3	8
30	Morphological and structural behavior of TiO ₂ nanoparticles in the presence of WO ₃ : crystallization of the oxide composite system. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19540-9	3.6	8
29	Effect of pressure on kaolinite illitization. <i>Applied Clay Science</i> , 2010 , 50, 342-347	5.2	8
28	Formation of High-Temperature Lutetium Disilicate from Lutetium-Saturated Aluminosilicates in Mild Conditions. Incorporation of Si and Al XAS Techniques to the Study of These Systems. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 19559-19567		8
27	Stability of the low temperature polymorphs (γ and β) of Lu-doped Y ₂ Si ₂ O ₇ . <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 1348-1353	3.9	8
26	BaGa ₄ O ₇ , a new A ₃ BC ₁₀ O ₂₀ crystalline phase: synthesis, structural determination and luminescence properties. <i>CrystEngComm</i> , 2015 , 17, 6127-6135	3.3	7
25	Synthesis and functionalization of biocompatible Tb:CePO ₄ nanophosphors with spindle-like shape. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	7
24	Liquid-phase thiophene adsorption on MCM-22 zeolites. Acidity, adsorption behaviour and nature of the adsorbed products. <i>Microporous and Mesoporous Materials</i> , 2009 , 118, 11-20	5.3	7
23	Illitization of Kaolinite: The Effect of Pressure on the Reaction Rate. <i>Clays and Clay Minerals</i> , 2010 , 58, 766-771	2.1	6
22	Cubic-tetragonal phase transition in Ca _{0.04} Sr _{0.96} TiO ₃ : a combined specific heat and neutron diffraction study. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 91-100	1.8	6
21	Design of a nanoprobe for high field magnetic resonance imaging, dual energy X-ray computed tomography and luminescent imaging. <i>Journal of Colloid and Interface Science</i> , 2020 , 573, 278-286	9.3	5

20	Study of the reversibility on the local La ³⁺ environment after thermal and drying treatments in lanthanum-exchanged smectites. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997 , 133, 34-38	1.2	5
19	Two-dimensional heteronuclear ¹ H - ²⁷ Al-correlated MAS NMR spectra of layered silicates. <i>Chemical Communications</i> , 2001 , 249-250	5.8	5
18	Structure of Lu ³⁺ and La ³⁺ ions intercalated within layered clays as determined by EXAFS. <i>Physica B: Condensed Matter</i> , 1995 , 208-209, 622-624	2.8	5
17	Solubilization of toluene in surfactant bilayers formed in the interlayer space of vermiculite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996 , 119, 189-194	5.1	5
16	The distribution of toluene in intercalation complexes of a vermiculite and alkyl trimethylammonium bromides. <i>Journal of Colloid and Interface Science</i> , 2003 , 267, 265-71	9.3	4
15	Persistent luminescent nanoparticles: Challenges and opportunities for a shimmering future. <i>Journal of Applied Physics</i> , 2021 , 130, 080902	2.5	4
14	Microemulsion-Mediated Synthesis and Properties of Uniform Ln:CaWO ₄ (Ln = Eu, Dy) Nanophosphors with Multicolor Luminescence for Optical and CT Imaging. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 5158-5168	2.3	3
13	Holmium phosphate nanoparticles as negative contrast agents for high-field magnetic resonance imaging: Synthesis, magnetic relaxivity study and in vivo evaluation. <i>Journal of Colloid and Interface Science</i> , 2021 , 587, 131-140	9.3	3
12	Influence of OH ⁻ concentration on the illitization of kaolinite at high pressure. <i>Applied Clay Science</i> , 2011 , 51, 220-225	5.2	2
11	Arrangement of surfactant molecules in the internal surfaces of layered materials. <i>Physica B: Condensed Matter</i> , 1997 , 234-236, 1096-1098	2.8	2
10	Formation at 300°C of a high-temperature disilicate from hydrated lutetium in a layered aluminosilicate. <i>Clay Minerals</i> , 1996 , 31, 507-512	1.3	2
9	Luminescence and X-ray Absorption Properties of Uniform Eu:(HO)LuF Nanoprobes. <i>Nanomaterials</i> , 2019 , 9,	5.4	1
8	Getting more out of X ₂ T ₂ O ₇ compounds with thortveitite structure: The bond-valence model. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 340-344	3.3	1
7	EXAFS study of the interaction of lanthanide cations with layered clays upon hydrothermal treatments. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995 , 97, 142-144	1.2	1
6	Oxygen Vacancies in Perovskite and Related Structures: Implications for the Lower Mantle. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 718, 1		1
5	NaY(MoO)-based nanoparticles: synthesis, luminescence and photocatalytic properties. <i>Dalton Transactions</i> , 2021 , 50, 16539-16547	4.3	1
4	Neodymium doped lanthanide fluoride nanoparticles as contrast agents for luminescent bioimaging and X-ray computed tomography. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2021 ,	1.9	1
3	Highly Versatile Upconverting Oxyfluoride-Based Nanophosphor Films. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30051-30060	9.5	1

- 2 Structural, optical and X-ray attenuation properties of Tb:BaCeF ($x = 0.18-0.48$) nanospheres synthesized in polyol medium. *Dalton Transactions*, **2018**, 47, 8382-8391 4.3 1
- 1 Experimental Study of the Ca Effect in the Cubic-Tetragonal Phase Transition of $\text{Ca}_{1-x}\text{Sr}_x\text{TiO}_3$. *Ferroelectrics*, **2004**, 301, 145-149 0.6