

Manuel Ocana

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147
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41
h-index

67
g-index

155
ext. papers

5,923
ext. citations

5.2
avg, IF

5.54
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 147 | Oriented Colloidal-Crystal Thin Films by Spin-Coating Microspheres Dispersed in Volatile Media. <i>Advanced Materials</i> , 2006 , 18, 2244-2249 | 24 | 241 |
| 146 | Porous One-Dimensional Photonic Crystals Improve the Power-Conversion Efficiency of Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2009 , 21, 764-770 | 24 | 227 |
| 145 | Nanoparticle-based one-dimensional photonic crystals. <i>Langmuir</i> , 2008 , 24, 4430-4 | 4 | 171 |
| 144 | Low-Temperature Nucleation of Rutile Observed by Raman Spectroscopy during Crystallization of TiO ₂ . <i>Journal of the American Ceramic Society</i> , 1992 , 75, 2010-2012 | 3.8 | 166 |
| 143 | The Growth Mechanism of α -Fe ₂ O ₃ Ellipsoidal Particles in Solution. <i>Journal of Colloid and Interface Science</i> , 1995 , 171, 85-91 | 9.3 | 163 |
| 142 | Formation of α -Fe ₂ O ₃ Isolated Nanoparticles in a Silica Matrix. <i>Langmuir</i> , 1997 , 13, 3627-3634 | 4 | 161 |
| 141 | Homogeneous Precipitation of Uniform α -Fe ₂ O ₃ Particles from Iron Salts Solutions in the Presence of Urea. <i>Journal of Colloid and Interface Science</i> , 1999 , 212, 317-323 | 9.3 | 139 |
| 140 | Factors affecting the infrared and Raman spectra of rutile powders. <i>Journal of Solid State Chemistry</i> , 1988 , 75, 364-372 | 3.3 | 122 |
| 139 | Preparation and properties of uniform-coated colloidal particles. 6. Titania on zinc oxide. <i>Langmuir</i> , 1991 , 7, 2911-2916 | 4 | 118 |
| 138 | Optical properties of α -Fe ₂ O ₃ microcrystals in the infrared. <i>Journal of Physics C: Solid State Physics</i> , 1987 , 20, 473-484 | | 109 |
| 137 | Response of nanoparticle-based one-dimensional photonic crystals to ambient vapor pressure. <i>Langmuir</i> , 2008 , 24, 9135-9 | 4 | 100 |
| 136 | Rare earth based nanostructured materials: synthesis, functionalization, properties and bioimaging and biosensing applications. <i>Nanophotonics</i> , 2017 , 6, 881-921 | 6.3 | 94 |
| 135 | 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 |
| 134 | An ionic liquid based synthesis method for uniform luminescent lanthanide fluoride nanoparticles. <i>Nanotechnology</i> , 2007 , 18, 455606 | 3.4 | 79 |
| 133 | Microwave-assisted synthesis of biocompatible europium-doped calcium hydroxyapatite and fluoroapatite luminescent nanospindles functionalized with poly(acrylic acid). <i>Langmuir</i> , 2013 , 29, 1985-94 | | 76 |
| 132 | Reactivity of lanthanum substituted cobaltites toward carbon particles. <i>Journal of Catalysis</i> , 2008 , 257, 334-344 | 7.3 | 75 |
| 131 | Microwave-Assisted Synthesis and Luminescence of Mesoporous RE-Doped YPO ₄ (RE = Eu, Ce, Tb, and Ce + Tb) Nanophosphors with Lenticular Shape. <i>Crystal Growth and Design</i> , 2012 , 12, 635-645 | 3.5 | 74 |

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| 130 | Uniform particles of manganese compounds obtained by forced hydrolysis of manganese(II) acetate. <i>Colloid and Polymer Science</i> , 2000 , 278, 443-449 | 2.4 | 74 |
| 129 | Well-defined colloidal tin(IV) oxide particles. <i>Journal of Materials Research</i> , 1990 , 5, 1083-1091 | 2.5 | 74 |
| 128 | Photoconducting Bragg Mirrors based on TiO ₂ Nanoparticle Multilayers. <i>Advanced Functional Materials</i> , 2008 , 18, 2708-2715 | 15.6 | 72 |
| 127 | Photonic crystal made by close packing SiO ₂ submicron spheres. <i>Superlattices and Microstructures</i> , 1997 , 22, 399-404 | 2.8 | 67 |
| 126 | Building Nanocrystalline Planar Defects within Self-Assembled Photonic Crystals by Spin-Coating. <i>Advanced Materials</i> , 2006 , 18, 1183-1187 | 24 | 66 |
| 125 | Surface modified Eu:GdVO ₄ nanocrystals for optical and MRI imaging. <i>Dalton Transactions</i> , 2013 , 42, 10725-34 | 4.3 | 65 |
| 124 | The variability of the infrared powder spectrum of amorphous SiO ₂ . <i>Journal of Non-Crystalline Solids</i> , 1989 , 107, 187-192 | 3.9 | 65 |
| 123 | The relationship of particle morphology and structure of basic copper(II) compounds obtained by homogeneous precipitation. <i>Journal of Crystal Growth</i> , 1994 , 143, 277-286 | 1.6 | 58 |
| 122 | Oxidation state and localization of chromium ions in Cr-doped cassiterite and Cr-doped malayaite. <i>Acta Materialia</i> , 2003 , 51, 2371-2381 | 8.4 | 57 |
| 121 | Experimental Demonstration of the Mechanism of Light Harvesting Enhancement in Photonic-Crystal-Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1150-1154 | 3.8 | 56 |
| 120 | Variations of the infrared powder spectra of TiO ₂ and SnO ₂ (rutile) with polarization. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1991 , 47, 765-774 | | 54 |
| 119 | Aggregation and Matrix Effects on the Infrared Spectrum of Microcrystalline Powders. <i>Applied Spectroscopy</i> , 1990 , 44, 418-426 | 3.1 | 54 |
| 118 | Polarization effects in the infrared spectra of Quartz and Cristobalite. <i>Physics and Chemistry of Minerals</i> , 1987 , 14, 527-532 | 1.6 | 51 |
| 117 | Citrate mediated synthesis of uniform monazite LnPO ₄ (Ln = La, Ce) and Ln:LaPO ₄ (Ln = Eu, Ce, Ce + Tb) spheres and their photoluminescence. <i>Journal of Colloid and Interface Science</i> , 2010 , 349, 484-91 | 9.3 | 50 |
| 116 | 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 |
| 115 | Synthesis and functionalization of monodisperse near-ultraviolet and visible excitable multifunctional Eu(3+), Bi(3+):REVO ₄ nanophosphors for bioimaging and biosensing applications. <i>Nanoscale</i> , 2016 , 8, 12221-36 | 7.7 | 48 |
| 114 | Ionic liquid mediated synthesis and surface modification of multifunctional mesoporous Eu:GdF ₃ nanoparticles for biomedical applications. <i>Langmuir</i> , 2013 , 29, 3411-8 | 4 | 47 |
| 113 | Determination of texture by infrared spectroscopy in titanium oxide anatase thin films. <i>Journal of Applied Physics</i> , 2003 , 93, 4634-4645 | 2.5 | 46 |

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| 112 | 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 |
| 111 | A simple procedure for the preparation of spherical oxide particles by hydrolysis of aerosols. <i>Ceramics International</i> , 1992 , 18, 99-106 | 5-1 | 45 |
| 110 | Uniform nanoparticles of Pr(III)/Ceria solid solutions prepared by homogeneous precipitation. <i>Scripta Materialia</i> , 2002 , 46, 655-660 | 5-6 | 43 |
| 109 | Formation of monodispersed SnO ₂ powders of various morphologies. <i>Colloid and Polymer Science</i> , 1995 , 273, 681-686 | 2-4 | 42 |
| 108 | Bifunctional, Monodisperse BiPO ₄ -Based Nanostars: Photocatalytic Activity and Luminescent Applications. <i>Crystal Growth and Design</i> , 2014 , 14, 3319-3326 | 3-5 | 41 |
| 107 | Tuning from blue to magenta the up-converted emissions of YF ₃ :Tm ³⁺ /Yb ³⁺ nanocrystals. <i>Nanoscale</i> , 2011 , 3, 1046-52 | 7-7 | 41 |
| 106 | Preparation through Aerosols of Cr-Doped Y ₂ Sn ₂ O ₇ (Pyrochlore) Red-Share Pigments and Determination of the Cr Oxidation State. <i>Journal of the American Ceramic Society</i> , 2005 , 87, 2108-2113 | 3-8 | 41 |
| 105 | Iron Zircon Pigments Prepared by Pyrolysis of Aerosols. <i>Journal of Solid State Chemistry</i> , 1997 , 128, 102-108 | 3-9 | 39 |
| 104 | Zircon formation from amorphous spherical ZrSiO ₄ particles obtained by hydrolysis of aerosols. <i>Journal of Materials Science</i> , 1994 , 29, 6533-6538 | 4-3 | 38 |
| 103 | Non-conventional synthesis of Cr-doped SnO ₂ pigments. <i>Ceramics International</i> , 2003 , 29, 385-392 | 5-1 | 37 |
| 102 | A vibrational study of uniform SnO ₂ powders of various morphologies. <i>Solid State Ionics</i> , 1993 , 63-65, 170-177 | 3-3 | 37 |
| 101 | A simple procedure for the preparation of Cr-doped tin sphenes pigments in the absence of fluxes. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 353-359 | 6 | 36 |
| 100 | Nanosized Cr ₂ O ₃ hydrate spherical particles prepared by the urea method. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 931-939 | 6 | 36 |
| 99 | Synthesis, through pyrolysis of aerosols, of YIn _{1-x} Mn _x O ₃ blue pigments and their efficiency for colouring glazes. <i>Dyes and Pigments</i> , 2011 , 91, 501-507 | 4-6 | 35 |
| 98 | Valence and Localization of Praseodymium in Pr-Doped Zircon. <i>Journal of Solid State Chemistry</i> , 1998 , 139, 412-415 | 3-3 | 35 |
| 97 | Synthesis and luminescence of uniform europium-doped bismuth fluoride and bismuth oxyfluoride particles with different morphologies. <i>CrystEngComm</i> , 2014 , 16, 3274 | 3-3 | 34 |
| 96 | Preparation, Characterization, and Magnetic Properties of Fe-Based Alloy Particles with Elongated Morphology. <i>Chemistry of Materials</i> , 2003 , 15, 3558-3563 | 9-6 | 34 |
| 95 | The formation of zircon from amorphous ZrO ₂ · SiO ₂ powders. <i>Journal of Materials Science</i> , 1996 , 31, 6089-6094 | 4-3 | 34 |

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| 94 | New Single-Phase, White-Light-Emitting Phosphors Based on $\text{EGd}_2\text{Si}_2\text{O}_7$ for Solid-State Lighting. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18035-18043 | 3.8 | 33 |
| 93 | Ar stabilisation of the cubic/tetragonal phases of ZrO_2 in thin films prepared by ion beam induced chemical vapour deposition. <i>Thin Solid Films</i> , 2001 , 389, 34-42 | 2.2 | 33 |
| 92 | Structural characterization of partially amorphous SnO_2 nanoparticles by factor analysis of XAS and FT-IR spectra. <i>Solid State Ionics</i> , 1999 , 116, 117-127 | 3.3 | 33 |
| 91 | Chemical state and distribution of Mn ions in Mn-doped BaAl_2O_3 solid solutions prepared in the absence and the presence of fluxes. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 3057-3062 | 6 | 32 |
| 90 | The effects of the NaF flux on the oxidation state and localisation of praseodymium in Pr-doped zircon pigments. <i>Journal of the European Ceramic Society</i> , 1999 , 19, 641-648 | 6 | 32 |
| 89 | Infrared optical properties of zircon. <i>Materials Research Bulletin</i> , 1994 , 29, 417-426 | 5.1 | 32 |
| 88 | 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 |
| 87 | Synthesis and structure resolution of RbLaF_4 . <i>Inorganic Chemistry</i> , 2012 , 51, 2272-82 | 5.1 | 31 |
| 86 | M-Doped Al_2TiO_5 (M=Cr, Mn, Co) Solid Solutions and their Use as Ceramic Pigments. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1972-1980 | 3.8 | 31 |
| 85 | Uniform $\text{YF}_3\text{:Yb,Er}$ up-conversion nanophosphors of various morphologies synthesized in polyol media through an ionic liquid. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 2553-2565 | 2.3 | 30 |
| 84 | Spectroscopic Studies on the Localization of Vanadium(IV) in Vanadium-Doped Zircon Pigments. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 395-400 | 3.8 | 30 |
| 83 | Ligand-Free Synthesis of Tunable Size Ln:BaGdF_6 (Ln = Eu^{3+} and Nd^{3+}) Nanoparticles: Luminescence, Magnetic Properties, and Biocompatibility. <i>Langmuir</i> , 2016 , 32, 411-20 | 4 | 29 |
| 82 | Small particle-size talc is associated with poor outcome and increased inflammation in thoracoscopic pleurodesis. <i>Respiration</i> , 2013 , 86, 201-9 | 3.7 | 28 |
| 81 | Journal Spherical Mullite Particles Prepared by Hydrolysis of Aerosols. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 2081-2085 | 3.8 | 28 |
| 80 | Uniform nanosized goethite particles obtained by aerial oxidation in the $\text{FeSO}_4\text{-Na}_2\text{CO}_3$ system. <i>Journal of Colloid and Interface Science</i> , 2002 , 254, 87-94 | 9.3 | 27 |
| 79 | 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 | 6 | 27 |
| 78 | Low-temperature preparation and structural characterization of Pr-doped ceria solid solutions. <i>Journal of Materials Research</i> , 2002 , 17, 797-804 | 2.5 | 27 |
| 77 | Preparation and characterization of uniform spherical silica particles coated with Ni and Co compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999 , 157, 315-324 | 5.1 | 26 |

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| 76 | Spherical iron/silica nanocomposites from core-shell particles. <i>Journal of Colloid and Interface Science</i> , 2006 , 294, 355-61 | 9.3 | 25 |
| 75 | Solvent-Controlled Synthesis and Luminescence Properties of Uniform Eu:YVO ₄ Nanophosphors with Different Morphologies. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 1301-1309 | 2.3 | 24 |
| 74 | Preparation by pyrolysis of aerosols and structural characterization of Fe-doped mullite powders. <i>Materials Research Bulletin</i> , 2000 , 35, 775-788 | 5.1 | 24 |
| 73 | 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 |
| 72 | Environmentally responsive nanoparticle-based luminescent optical resonators. <i>Nanoscale</i> , 2010 , 2, 936-947 | 4.7 | 22 |
| 71 | Synthesis of Spherical Down- and Up-Conversion NaYF ₄ -Based Nanophosphors with Tunable Size in Ethylene Glycol without Surfactants or Capping Additives. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 4517-4524 | 2.3 | 22 |
| 70 | Preparation of Blue Vanadium-Zircon Pigments by Aerosols Hydrolysis. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 1147-1152 | 3.8 | 22 |
| 69 | Preparation and characterization of uniform nanocrystalline prismatic SnO ₂ particles. <i>Materials Letters</i> , 1991 , 12, 32-36 | 3.3 | 22 |
| 68 | Europium-doped NaGd(WO) nanophosphors: synthesis, luminescence and their coating with fluorescein for pH sensing. <i>Dalton Transactions</i> , 2017 , 46, 11575-11583 | 4.3 | 21 |
| 67 | Brown ceramic pigments based on chromium(III)-doped titanite obtained by spray pyrolysis. <i>Dyes and Pigments</i> , 2008 , 79, 265-269 | 4.6 | 20 |
| 66 | Crystal Structure and Luminescent Properties of Eu ³⁺ -Doped A-La ₂ Si ₂ O ₇ Tetragonal Phase Stabilized by Spray Pyrolysis Synthesis. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20876-20886 | 3.8 | 19 |
| 65 | Iron oxide thin films prepared by ion beam induced chemical vapor deposition: Structural characterization by infrared spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000 , 18, 2244 | 2.9 | 18 |
| 64 | Origin of color in aerosol-derived vanadium-doped zirconia pigments. <i>Journal of Materials Research</i> , 1998 , 13, 413-420 | 2.5 | 18 |
| 63 | A facile single-step procedure for the synthesis of luminescent Ln ³⁺ :YVO ₄ (Ln = Eu or Er + Yb)-silica nanocomposites. <i>Materials Chemistry and Physics</i> , 2011 , 125, 224-230 | 4.4 | 17 |
| 62 | Photophysics of Rhodamine 6G-Doped TiO ₂ Particles during Drying Using Steady-State Spectroscopy and Variable-Frequency Phase and Modulation Data. <i>Langmuir</i> , 1994 , 10, 2683-2687 | 4 | 17 |
| 61 | The Nature of Co in Synthetic Co-substituted Goethites. <i>Clays and Clay Minerals</i> , 2004 , 52, 760-766 | 2.1 | 17 |
| 60 | Multifunctional Eu-doped NaGd(MoO) nanoparticles functionalized with poly(L-lysine) for optical and MRI imaging. <i>Dalton Transactions</i> , 2016 , 45, 16354-16365 | 4.3 | 17 |
| 59 | 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 |

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| 58 | Template-free synthesis and luminescent properties of hollow Ln:YOF (Ln = Eu or Er + Yb) microspheres. <i>Journal of Alloys and Compounds</i> , 2015 , 619, 44-51 | 5-7 | 16 |
| 57 | Preparation by hydrolysis of aerosols and colour properties of Cr-doped and Co-doped zircon powders. <i>Journal of the European Ceramic Society</i> , 1998 , 18, 821-830 | 6 | 16 |
| 56 | Preparation of uniform colloidal dispersions by chemical reactions in aerosols. Tin(IV) oxide. <i>Journal of Aerosol Science</i> , 1990 , 21, 811-820 | 4-3 | 16 |
| 55 | One-Step Synthesis and Polyacrylic Acid Functionalization of Multifunctional Europium-Doped NaGdF ₄ Nanoparticles with Selected Size for Optical and MRI Imaging. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 6075-6084 | 2-3 | 15 |
| 54 | Phase delay and group velocity determination at a planar defect state in three dimensional photonic crystals. <i>Applied Physics Letters</i> , 2007 , 90, 101113 | 3-4 | 15 |
| 53 | Synthesis of acicular Fe ₃ O ₄ nanoparticles and the effect of Al addition on their magnetic properties. <i>Nanotechnology</i> , 2004 , 15, S190-S196 | 3-4 | 15 |
| 52 | Amorphisation and related structural effects in thin films prepared by ion beam assisted methods. <i>Surface and Coatings Technology</i> , 2000 , 125, 116-123 | 4-4 | 15 |
| 51 | Preparation and optical properties of spherical metal oxide particles containing fluorescent dyes. <i>Journal of Non-Crystalline Solids</i> , 1992 , 147-148, 621-626 | 3-9 | 15 |
| 50 | 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 |
| 49 | Uniform Poly(acrylic acid)-Functionalized Lanthanide-Doped LaVO ₄ Nanophosphors with High Colloidal Stability and Biocompatibility. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 4546-4554 | 2-3 | 14 |
| 48 | Effect of precursor impurities on the magnetic properties of uniform γ -Fe ₂ O ₃ ellipsoidal particles. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 4465-4471 | 3-6 | 14 |
| 47 | Synthesis of Cr-doped CaTiSiO ₅ ceramic pigments by spray drying. <i>Materials Research Bulletin</i> , 2009 , 44, 918-924 | 5-1 | 13 |
| 46 | Synthesis by pyrolysis of aerosols and ceramic application of Cr-doped CaYAlO ₄ red-orange pigments. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 2193-2198 | 6 | 13 |
| 45 | Uniform Elongated Colloidal HfO ₂ Particles. <i>Journal of Colloid and Interface Science</i> , 1994 , 163, 262-268 | 9-3 | 13 |
| 44 | Photonic Tuning of the Emission Color of Nanophosphor Films Processed at High Temperature. <i>Advanced Optical Materials</i> , 2017 , 5, 1700099 | 8-1 | 12 |
| 43 | 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 |
| 42 | Magnetic Iron Oxide/Mullite Nanocomposite Stable up to 1400°C. <i>Journal of Solid State Chemistry</i> , 2000 , 155, 458-462 | 3-3 | 12 |
| 41 | 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 |

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| 40 | 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 |
| 39 | Uniform, luminescent Eu:LuF ₃ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1 | 2.3 | 11 |
| 38 | Quick synthesis, functionalization and properties of uniform, luminescent LuPO ₄ -based nanoparticles. <i>RSC Advances</i> , 2015 , 5, 34517-34524 | 3.7 | 11 |
| 37 | FeCo magnetic nanoneedles obtained by Co-coating haematite. <i>Nanotechnology</i> , 2005 , 16, 647-654 | 3.4 | 11 |
| 36 | Preparation and Characterization of Uniform Needle-like Particles of Nickel Basic Sulfate. <i>Journal of Colloid and Interface Science</i> , 2000 , 228, 259-262 | 9.3 | 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 | LaPO ₄ :Er microspheres with high NIR luminescent quantum yield. <i>Materials Chemistry and Physics</i> , 2013 , 138, 666-671 | 4.4 | 9 |
| 33 | Preparation and properties of uniform praseodymium-doped ceria colloidal particles. <i>Colloid and Polymer Science</i> , 2002 , 280, 274-281 | 2.4 | 9 |
| 32 | Fine spherical particles of narrow size distribution in the Cr ₂ O ₃ -Al ₂ O ₃ system. <i>Journal of Materials Science</i> , 2001 , 36, 2383-2389 | 4.3 | 9 |
| 31 | Bimodal Nd-Doped LuVO Nanoprobes Functionalized with Polyacrylic Acid for X-Ray Computed Tomography and NIR Luminescent Imaging. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 9 |
| 30 | 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 |
| 29 | Crystal structure, NIR luminescence and X-ray computed tomography of Nd:BaLuF nanospheres. <i>Dalton Transactions</i> , 2017 , 46, 6580-6587 | 4.3 | 8 |
| 28 | Aerosol-derived Mn-doped Al ₂ O ₃ pink pigments prepared in the absence of fluxes. <i>Dyes and Pigments</i> , 2004 , 61, 279-286 | 4.6 | 8 |
| 27 | Acicular Metallic Particles Obtained from Al-Doped Goethite Precursors. <i>Chemistry of Materials</i> , 2003 , 15, 951-957 | 9.6 | 8 |
| 26 | Continuous production of spherical strontium titanate at low temperature. <i>Journal of Materials Science Letters</i> , 1990 , 9, 772-773 | | 8 |
| 25 | Preparation of uniform colloidal particles of hafnium compounds. <i>Journal of Materials Chemistry</i> , 1991 , 1, 87-90 | | 8 |
| 24 | Luminescent Eu-doped GdVO ₄ nanocrystals as optical markers for anti-counterfeiting purposes. <i>Chemical Papers</i> , 2017 , 71, 149-159 | 1.9 | 7 |
| 23 | Up-conversion in Er ³⁺ /Yb ³⁺ co-doped LaPO ₄ submicron-sized spheres. <i>Optical Materials</i> , 2015 , 41, 104-107 | 3.3 | 7 |

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| 22 | 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 |
| 21 | Analysis of texture and microstructure of anatase thin films by Fourier transform infrared spectroscopy. <i>Thin Solid Films</i> , 2006 , 515, 1585-1591 | 2.2 | 7 |
| 20 | Synthesis and Structural Characterization by X-ray Absorption Spectroscopy of Tin-Doped Mullite Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 1910-1914 | 3.8 | 7 |
| 19 | Structural modifications produced by the incorporation of Ar within the lattice of Fe ₂ O ₃ thin films prepared by ion beam induced chemical vapour deposition. <i>Acta Materialia</i> , 2000 , 48, 4555-4561 | 8.4 | 7 |
| 18 | Energy transfer efficiency in YF ₃ nanocrystals: Quantifying the Yb ³⁺ to Tm ³⁺ infrared dynamics. <i>Journal of Applied Physics</i> , 2013 , 113, 174308 | 2.5 | 6 |
| 17 | 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 |
| 16 | The influence of protective coatings on the magnetic properties of acicular iron nanoparticles. <i>Nanotechnology</i> , 2006 , 17, 1421-1427 | 3.4 | 5 |
| 15 | Spherical HfO ₂ particles obtained by hydrolysis of hafnium tert-butoxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1993 , 79, 169-175 | 5.1 | 5 |
| 14 | Deposition of silica protected luminescent layers of Eu:GdVO ₄ nanoparticles assisted by atmospheric pressure plasma jet. <i>Thin Solid Films</i> , 2016 , 598, 88-94 | 2.2 | 4 |
| 13 | Dysprosium and Holmium Vanadate Nanoprobes as High-Performance Contrast Agents for High-Field Magnetic Resonance and Computed Tomography Imaging. <i>Inorganic Chemistry</i> , 2021 , 60, 152-160 | 5.1 | 4 |
| 12 | Persistent luminescent nanoparticles: Challenges and opportunities for a shimmering future. <i>Journal of Applied Physics</i> , 2021 , 130, 080902 | 2.5 | 4 |
| 11 | 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 |
| 10 | Angular emission properties of a layer of rare-earth based nanophosphors embedded in one-dimensional photonic crystal coatings. <i>Applied Physics Letters</i> , 2011 , 99, 051111 | 3.4 | 3 |
| 9 | Preparation by hydrolysis of aerosols and properties of Cr, Mn and Co doped alumina spherical particles. <i>Colloid and Polymer Science</i> , 1997 , 275, 1010-1017 | 2.4 | 3 |
| 8 | 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 |
| 7 | Improving Co distribution in acicular Fe ₃ O ₄ nanoparticles and its effect on their magnetic properties. <i>Nanotechnology</i> , 2007 , 18, 205601 | 3.4 | 2 |
| 6 | Synthesis and optical properties of environmentally benign and highly uniform NaCe(MoO ₄) ₂ based yellow nanopigments. <i>Journal of Alloys and Compounds</i> , 2018 , 739, 542-548 | 5.7 | 1 |
| 5 | Luminescence and X-ray Absorption Properties of Uniform Eu:(HO)LuF Nanoprobes. <i>Nanomaterials</i> , 2019 , 9, | 5.4 | 1 |

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| 4 | NaY(MoO)-based nanoparticles: synthesis, luminescence and photocatalytic properties. <i>Dalton Transactions</i> , 2021 , 50, 16539-16547 | 4.3 | 1 |
| 3 | Neodymium doped lanthanide fluoride nanoparticles as contrast agents for luminescent bioimaging and X-ray computed tomography. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2021 , | 1.9 | 1 |
| 2 | Highly Versatile Upconverting Oxyfluoride-Based Nanophosphor Films. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30051-30060 | 9.5 | 1 |
| 1 | Structural, optical and X-ray attenuation properties of Tb:BaCeF (x = 0.18-0.48) nanospheres synthesized in polyol medium. <i>Dalton Transactions</i> , 2018 , 47, 8382-8391 | 4.3 | 1 |