

Ana C Marques

List of Publications by Year in descending order

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57
papers

906
citations

430874

18
h-index

526287

27
g-index

57
all docs

57
docs citations

57
times ranked

934
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Vibrational spectra and structure of alkali germanate glasses. <i>Journal of Non-Crystalline Solids</i> , 2001, 293-295, 394-401. | 3.1 | 110 |
| 2 | Review on Adhesives and Surface Treatments for Structural Applications: Recent Developments on Sustainability and Implementation for Metal and Composite Substrates. <i>Materials</i> , 2020, 13, 5590. | 2.9 | 58 |
| 3 | Evaluation of 3D nano-“macro porous bioactive glass scaffold for hard tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1195-1203. | 3.6 | 41 |
| 4 | Er photoluminescence enhancement in Ag-doped sol-gel planar waveguides. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 2613-2618. | 3.1 | 33 |
| 5 | Replacement of petroleum-derived diols by sustainable biopolyols in one component polyurethane foams. <i>Journal of Cleaner Production</i> , 2019, 212, 1036-1043. | 9.3 | 33 |
| 6 | Sol-gel-derived glass scaffold with high pore interconnectivity and enhanced bioactivity. <i>Journal of Materials Research</i> , 2009, 24, 3495-3502. | 2.6 | 29 |
| 7 | Polycaprolactone microcapsules containing citric acid and naringin for plant growth and sustainable agriculture: physico-chemical properties and release behavior. <i>Science of the Total Environment</i> , 2020, 703, 135548. | 8.0 | 29 |
| 8 | Reversible photoluminescence quenching in Er ³⁺ -doped silica-titania planar waveguides prepared by sol-gel. <i>Journal of Non-Crystalline Solids</i> , 2003, 322, 272-277. | 3.1 | 28 |
| 9 | IZO deposition by RF and DC sputtering on paper and application on flexible electrochromic devices. <i>Displays</i> , 2013, 34, 326-333. | 3.7 | 27 |
| 10 | Optical Nanocomposite Planar Waveguides Doped with Rare-Earth and Noble Metal Elements. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 891-896. | 2.4 | 26 |
| 11 | Spectroscopic assessment of silica-titania and silica-hafnia planar waveguides. <i>Philosophical Magazine</i> , 2004, 84, 1659-1666. | 1.6 | 26 |
| 12 | Non-Formaldehyde, Bio-Based Adhesives for Use in Wood-Based Panel Manufacturing Industry—A Review. <i>Polymers</i> , 2021, 13, 4086. | 4.5 | 26 |
| 13 | Rare-earth doped photonic crystal microcavities prepared by sol-gel. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 490-493. | 3.1 | 25 |
| 14 | Autonomous self-healing in epoxy coatings provided by high efficiency isophorone diisocyanate (IPDI) microcapsules for protection of carbon steel. <i>Progress in Organic Coatings</i> , 2020, 139, 105445. | 3.9 | 25 |
| 15 | Isophorone Diisocyanate (IPDI) Microencapsulation for Mono-Component Adhesives: Effect of the Active H and NCO Sources. <i>Polymers</i> , 2018, 10, 825. | 4.5 | 22 |
| 16 | Porous Silica Microspheres with Immobilized Titania Nanoparticles for In-Flow Solar-Driven Purification of Wastewater. <i>Global Challenges</i> , 2021, 5, 2000116. | 3.6 | 20 |
| 17 | Glassy and nanocrystalline photonic materials and structures by sol-gel. <i>Optical Materials</i> , 2005, 27, 1718-1725. | 3.6 | 19 |
| 18 | Rare-earth photoluminescence in sol-gel derived confined glass structures. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 475-482. | 3.1 | 18 |

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|----|--|-----|-----------|
| 19 | Nano/macroporous monolithic scaffolds prepared by the sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 51, 42-47. | 2.4 | 17 |
| 20 | Interlaminar shear strength study of Mg and carbon fiber-based hybrid laminates with self-healing microcapsules. <i>Composite Structures</i> , 2021, 255, 113042. | 5.8 | 17 |
| 21 | Hybrid shell microcapsules containing isophorone diisocyanate with high thermal and chemical stability for autonomous self-healing of epoxy coatings. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48751. | 2.6 | 16 |
| 22 | Electrical stimulation of neural-differentiating iPSCs on novel coaxial electroconductive nanofibers. <i>Biomaterials Science</i> , 2021, 9, 5359-5382. | 5.4 | 16 |
| 23 | Photoluminescence of Erbium-Doped Silicate Sol-Gel Planar Waveguides. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 31, 317-322. | 2.4 | 15 |
| 24 | Hybrid custom-tailored sol-gel derived microscaffold for biocides immobilization. <i>Microporous and Mesoporous Materials</i> , 2018, 261, 252-258. | 4.4 | 15 |
| 25 | Microencapsulation of Isocyanate in Biodegradable Poly(μ -caprolactone) Capsules and Application in Monocomponent Green Adhesives. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4425-4438. | 4.4 | 14 |
| 26 | One-Component Spray Polyurethane Foam from Liquefied Pinewood Polyols: Pursuing Eco-Friendly Materials. <i>Journal of Polymers and the Environment</i> , 2018, 26, 91-100. | 5.0 | 13 |
| 27 | The role played by different active hydrogen sources in the microencapsulation of a commercial oligomeric diisocyanate. <i>Journal of Materials Science</i> , 2020, 55, 4607-4623. | 3.7 | 13 |
| 28 | Planar waveguides for integrated optics prepared by sol-gel methods. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002, 82, 707-719. | 0.6 | 12 |
| 29 | PEDOT:PSS-Coated Polybenzimidazole Electroconductive Nanofibers for Biomedical Applications. <i>Polymers</i> , 2021, 13, 2786. | 4.5 | 12 |
| 30 | Rare earth-doped photonic crystals via sol-gel. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 307-311. | 2.2 | 11 |
| 31 | Raman spectra and structure of multicomponent oxide planar waveguides prepared by sol-gel. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 40, 371-378. | 2.4 | 10 |
| 32 | The potential of ion exchange in sol-gel derived photonic materials and structures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 149, 118-122. | 3.5 | 10 |
| 33 | Organically-modified silica based microspheres for self-curing polyurethane one component foams. <i>Microporous and Mesoporous Materials</i> , 2017, 244, 244-250. | 4.4 | 10 |
| 34 | Amino-silica microcapsules as effective curing agents for polyurethane foams. <i>Journal of Materials Science</i> , 2017, 52, 5380-5389. | 3.7 | 9 |
| 35 | Smart epoxy coating modified with isophorone diisocyanate microcapsules and cerium organophosphate for multilevel corrosion protection of carbon steel. <i>Progress in Organic Coatings</i> , 2020, 147, 105864. | 3.9 | 9 |
| 36 | Silica-based microspheres with interconnected macroporosity by phase separation. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 95, 746-759. | 2.4 | 9 |

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|----|--|-----|-----------|
| 37 | Injectable hydrogels with two different rates of drug release based on pluronic/water system filled with poly(μ -caprolactone) microcapsules. <i>Journal of Materials Science</i> , 2021, 56, 13416-13428. | 3.7 | 9 |
| 38 | Compositional Profiles in Silica-Based Sol-Gel Films Doped with Erbium and Silver, by RBS and ERDA. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 31, 287-291. | 2.4 | 7 |
| 39 | Planar waveguides for integrated optics prepared by sol-gel methods. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2002, 82, 707-719. | 0.6 | 6 |
| 40 | Spectroscopic assessment of rare-earth activated planar waveguides and microcavities. <i>Applied Surface Science</i> , 2005, 248, 3-7. | 6.1 | 6 |
| 41 | GreenCaps: towards solid curing agents for sustainable polyurethane foams. <i>Sustainable Chemical Processes</i> , 2014, 2, . | 2.3 | 6 |
| 42 | Study of silica-titania films doped with Er and Ag by RBS and ERDA. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 219-220, 923-927. | 1.4 | 5 |
| 43 | EXAFS study of the Er ³⁺ ion coordination in SiO ₂ -TiO ₂ -HfO ₂ sol-gel films. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 4940-4943. | 3.1 | 5 |
| 44 | Macroporosity Control by Phase Separation in Sol-Gel Derived Monoliths and Microspheres. <i>Materials</i> , 2021, 14, 4247. | 2.9 | 5 |
| 45 | Characterization of Sol-Gel Materials by Infrared Spectroscopy. , 2018, , 1121-1151. | | 5 |
| 46 | Stability of erbium and silver implanted in silica-titania sol-gel films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 240, 415-419. | 1.4 | 4 |
| 47 | Polyurethane one-component foam formulation optimization for low free isocyanate monomer content. <i>Journal of Cellular Plastics</i> , 2017, 53, 167-179. | 2.4 | 4 |
| 48 | Optimization of a microfluidic process to encapsulate isocyanate for autoreactive and ecological adhesives. <i>Polymer Bulletin</i> , 2022, 79, 3951-3970. | 3.3 | 4 |
| 49 | Analysis of sol-gel silica-titania films doped with Ag and Er using artificial neural networks. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 249, 804-807. | 1.4 | 3 |
| 50 | Solid Curing Agents for Polyurethane Foams: Proof of Concept of the Release Mechanism. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 674-678. | 3.6 | 3 |
| 51 | Development of a Microfluidic Device to Encapsulate Isocyanate for Autoreactive and Ecological Adhesives. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 520, 012007. | 0.6 | 3 |
| 52 | Optical spectroscopy methods for the characterization of sol-gel materials. <i>Journal of Sol-Gel Science and Technology</i> , 2021, 100, 1-43. | 2.4 | 3 |
| 53 | Erbium/Ytterbium-activated silica-titania planar and channel waveguides prepared by rf-sputtering. , 2003, , . | | 2 |
| 54 | Characterization of Sol-Gel Materials by Infrared Spectroscopy. , 2016, , 1-31. | | 2 |

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|----|---|-----|-----------|
| 55 | Amino surface functionalized microcapsules as curing agents for polyurethane foams. <i>Materials and Manufacturing Processes</i> , 2017, 32, 1304-1309. | 4.7 | 1 |
| 56 | Biobased Polyurethane Coatings for Corrosion Protection of Carbon Steel. , 2022, 8, . | | 0 |
| 57 | Evaluation of the Potential of Metakaolin, Electric Arc Furnace Slag, and Biomass Fly Ash for Geopolymer Cement Compositions. , 0, , . | | 0 |