# Carlos J Martinez

List of Publications by Year
in descending order



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|---|---|---|---|
| 32 papers | 1,842 citations | 430874 18 h-index | 454955 30 g-index |
| 32 all docs | 32 docs citations | 32 times ranked | 2770 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Environmentally Tuning Asphalt Pavements Using Microencapsulated Phase Change Materials. Transportation Research Record, 2022, 2676, 158-175. | 1.9 | 7 |
| 2 | Spontaneous Emulsions: Adjusting Spontaneity and Phase Behavior by Hydrophilicâ€“Lipophilic Difference-Guided Surfactant, Salt, and Oil Selection. Langmuir, 2022, 38, 4276-4286. | 3.5 | 3 |
| 3 | Fabrication of ceramic particles from preceramic polymers using stop flow lithography. Journal of the European Ceramic Society, 2021, 41, 3314-3320. | 5.7 | 4 |
| 4 | Impact of Saltwater Environments on the Coalescence of Oil-in-Water Emulsions Stabilized by an Anionic Surfactant. ACS ES&T Water, 2021, 1, 1702-1713. | 4.6 | 12 |
| 5 | Predicting Spontaneous Emulsification in Saltwater Environments Using the HLD Model. Langmuir, 2021, 37, 8866-8875. | 3.5 | 5 |
| 6 | Encapsulation of biobased fatty acid amides for phase change material applications. Journal of Renewable and Sustainable Energy, 2021, 13, . | 2.0 | 2 |
| 7 | Synthesis and Characterization of Fatty Acid Amides from Commercial Vegetable Oils and Primary Alkyl Amines for Phase Change Material Applications. ACS Sustainable Chemistry and Engineering, 2020, 8, 13683-13691. | 6.7 | 19 |
| 8 | Diffusion-Controlled Spontaneous Emulsification of Water-Soluble Oils via Micelle Swelling. Langmuir, 2020, 36, 7517-7527. | 3.5 | 11 |
| 9 | Altering the Crosslinking Density of Polyacrylamide Hydrogels to Increase Swelling Capacity and Promote Calcium Hydroxide Growth in Cement Voids. RILEM Bookseries, 2020, , 20-28. | 0.4 | 5 |
| 10 | Sustained Dye Release Using Poly(ureaâ€“urethane)/Cellulose Nanocrystal Composite Microcapsules. Langmuir, 2017, 33, 1521-1532. | 3.5 | 28 |
| 11 | Synthesis and Characterization of Microencapsulated Phase Change Materials with Poly(ureaâ€urethane) Shells Containing Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2017, 9, 31763-31776. | 8.0 | 95 |
| 12 | CNC-loaded hydrogel particles generated from single- and double-emulsion drops. Green Materials, 2015, 3, 25-34. | 2.1 | 6 |
| 13 | Magnetic nanoparticle ink for RF integrated inductor applications. , 2014, , . | | 0 |
| 14 | Assembly of Colloidal Silica Crystals Inside Double Emulsion Drops. Langmuir, 2013, 29, 11849-11857. | 3.5 | 31 |
| 15 | Altering Colloidal Surface Functionalization Using DNA Encapsulated Inside Monodisperse Gelatin Microsphere Templates. Langmuir, 2013, 29, 5534-5539. | 3.5 | 10 |
| 16 | Effect of Polyvinylpyrrolidone Additions on the Rheology of Aqueous, Highly Loaded Alumina Suspensions. Journal of the American Ceramic Society, 2013, 96, 1372-1382. | 3.8 | 49 |
| 17 | Electrochemical Biosensors Fabricated with Polyelectrolyte Microspheres. Journal of the Electrochemical Society, 2012, 159, B783-B788. | 2.9 | 7 |
| 18 | A Microfluidic Approach to Encapsulate Living Cells in Uniform Alginate Hydrogel Microparticles. Macromolecular Bioscience, 2012, 12, 946-951. | 4.1 | 98 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Ceramic microparticles and capsules via microfluidic processing of a preceramic polymer. Journal of the Royal Society Interface, 2010, 7, S461-73. | 3.4 | 62 |
| 20 | Microsensors in Dynamic Backgrounds: Toward Real-Time Breath Monitoring. IEEE Sensors Journal, 2010, 10, 137-144. | 4.7 | 31 |
| 21 | Bubble generation in microfluidic devices. Bubble Science, Engineering & Technology, 2009, 1, 40-52. | 0.2 | 22 |
| 22 | Designer emulsions using microfluidics. Materials Today, 2008, 11, 18-27. | 14.2 | 623 |
| 23 | The potential for and challenges of detecting chemical hazards with temperature-programmed microsensors. Sensors and Actuators B: Chemical, 2007, 121, 282-294. | 7.8 | 62 |
| 24 | Integration of nanostructured materials with MEMS microhotplate platforms to enhance chemical sensor performance. Journal of Nanoparticle Research, 2006, 8, 809-822. | 1.9 | 41 |
| 25 | Porous Tin Oxide Nanostructured Microspheres for Sensor Applications. Langmuir, 2005, 21, 7937-7944. | 3.5 | 243 |
| 26 | Interparticle Interactions and Direct Imaging of Colloidal Phases Assembled from Microspherea^'Nanoparticle Mixtures. Langmuir, 2005, 21, 9978-9989. | 3.5 | 44 |
| 27 | Controlled Electrophoretic Patterning of Polyaniline from a Colloidal Suspension. Journal of the American Chemical Society, 2005, 127, 4903-4909. | 13.7 | 91 |
| 28 | Effect of Morphology on the Response of Polyaniline-based Conductometric Gas Sensors: Nanofibers vs. Thin Films. Electrochemical and Solid-State Letters, 2004, 7, H44. | 2.2 | 57 |
| 29 | Stress development during drying of calcium carbonate suspensions containing carboxymethylcellulose and latex particles. Journal of Colloid and Interface Science, 2004, 272, 1-9. | 9.4 | 51 |
| 30 | Shape Evolution and Stress Development during Latexa^'Silica Film Formation. Langmuir, 2002, 18, 4689-4698. | 3.5 | 83 |
| 31 | Rheological, Structural, and Stress Evolution of Aqueous Al2O3:Latex Tape-Cast Layers. Journal of the American Ceramic Society, 2002, 85, 2409-2416. | 3.8 | 37 |
| 32 | Impact of mixed surfactant composition on emulsion stability in saline environment: anionic and nonionic surfactants. Journal of Dispersion Science and Technology, 0, , 1-13. | 2.4 | 3 |