

# MarÃ-a C GutiÃ©rrez

## List of Publications by Year in descending order

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53  
papers

5,400  
citations

101543

36  
h-index

175258

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

7881  
citing authors

#	ARTICLE	IF	CITATIONS
1	Should deep eutectic solvents be treated as a mixture of two components or as a pseudo-component?. Journal of Chemical Physics, 2021, 154, 184501.	3.0	10
2	Tools for extending the dilution range of the "solvent-in-DES" regime. Journal of Molecular Liquids, 2021, 329, 115573.	4.9	11
3	Brillouin Spectroscopy as a Suitable Technique for the Determination of the Eutectic Composition in Mixtures of Choline Chloride and Water. Journal of Physical Chemistry B, 2020, 124, 4002-4009.	2.6	24
4	Highly Efficient and Recyclable Carbon Nanofiber-Based Aerogels for Ionic Liquid Water Separation and Ionic Liquid Dehydration in Flow Through Conditions. Advanced Materials, 2019, 31, e1903418.	21.0	24
5	Carbon GO Composites with Preferential Water versus Ethanol Uptake. ACS Applied Materials & Interfaces, 2019, 11, 24493-24503.	8.0	12
6	Vortex ring processes allowing shape control and entrapment of antibacterial agents in GO-based particles. Carbon, 2019, 147, 408-418.	10.3	7
7	Ice as a Green-Structure-Directing Agent in the Synthesis of Macroporous MWCNTs and Chondroitin Sulphate Composites. Materials, 2017, 10, 355.	2.9	5
8	Synthesis of Biodegradable Macroporous Poly(L-lactide)/Poly( $\mu$ -caprolactone) Blend Using Oil-in-Eutectic-Mixture High-Internal-Phase Emulsions as Template. ACS Applied Materials & Interfaces, 2016, 8, 16939-16949.	8.0	55
9	Phosphorus-doped carbon carbon nanotube hierarchical monoliths as true three-dimensional electrodes in supercapacitor cells. Journal of Materials Chemistry A, 2016, 4, 1251-1263.	10.3	136
10	Nitrogen-doped carbons prepared from eutectic mixtures as metal-free oxygen reduction catalysts. Journal of Materials Chemistry A, 2016, 4, 478-488.	10.3	35
11	Deep Eutectic Solvents Playing Multiple Roles in the Synthesis of Porous Carbon Materials. , 2015, , 23-45.		1
12	Near-to-eutectic mixtures as bifunctional catalysts in the low-temperature-ring-opening-polymerization of $\mu$ -caprolactone. Green Chemistry, 2015, 17, 3632-3643.	9.0	27
13	Preparation of Chitosan Nanocomposites with a Macroporous Structure by Unidirectional Freezing and Subsequent Freeze-Drying. Marine Drugs, 2014, 12, 5619-5642.	4.6	55
14	Chitosan Scaffolds Containing Calcium Phosphate Salts and rhBMP-2: In Vitro and In Vivo Testing for Bone Tissue Regeneration. PLoS ONE, 2014, 9, e87149.	2.5	28
15	Sulfur-Doped Carbons Prepared from Eutectic Mixtures Containing Hydroxymethylthiophene as Metal-Free Oxygen Reduction Catalysts. ChemSusChem, 2014, 7, 3347-3355.	6.8	17
16	Effect of doping in carbon nanotubes on the viability of biomimetic chitosan-carbon nanotubes-hydroxyapatite scaffolds. Journal of Biomedical Materials Research - Part A, 2014, 102, 3341-3351.	4.0	20
17	Role of polymers in the design of 3D carbon nanotube-based scaffolds for biomedical applications. Progress in Polymer Science, 2014, 39, 1448-1471.	24.7	78
18	Deep Eutectic Solvents in Polymerizations: A Greener Alternative to Conventional Syntheses. ChemSusChem, 2014, 7, 999-1009.	6.8	200

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19	Chondroitin sulphate-based 3D scaffolds containing MWCNTs for nervous tissue repair. <i>Biomaterials</i> , 2014, 35, 1543-1551.	11.4	55
20	Efficient nitrogen-doping and structural control of hierarchical carbons using unconventional precursors in the form of deep eutectic solvents. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17387-17399.	10.3	37
21	Deep Eutectic Solvent-Assisted Synthesis of Biodegradable Polyesters with Antibacterial Properties. <i>Langmuir</i> , 2013, 29, 9525-9534.	3.5	74
22	Deep Eutectic Solvent-Assisted Synthesis of Bimodal Porous Carbon Monoliths with High Electrical Conductivities. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 316-320.	2.3	19
23	Microwave-assisted synthesis of NiCo <sub>2</sub> O <sub>4</sub> /graphene oxide nanocomposites suitable as electrodes for supercapacitors. <i>RSC Advances</i> , 2013, 3, 13690.	3.6	69
24	Three dimensional macroporous architectures and aerogels built of carbon nanotubes and/or graphene: synthesis and applications. <i>Chemical Society Reviews</i> , 2013, 42, 794-830.	38.1	1,065
25	Deep eutectic solvents as both active fillers and monomers for frontal polymerization. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1767-1773.	2.3	92
26	Synthesis of macroporous poly(acrylic acid)/carbon nanotube composites by frontal polymerization in deep-eutectic solvents. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3970.	10.3	97
27	Phase Behavior of Elastin-Like Synthetic Recombinamers in Deep Eutectic Solvents. <i>Biomacromolecules</i> , 2012, 13, 2029-2036.	5.4	30
28	Deep eutectic assisted synthesis of carbon adsorbents highly suitable for low-pressure separation of CO <sub>2</sub> /CH <sub>4</sub> gas mixtures. <i>Energy and Environmental Science</i> , 2012, 5, 8699.	30.8	71
29	Synthesis of novel lidocaine-releasing poly(diols-co-citrate) elastomers by using deep eutectic solvents. <i>Chemical Communications</i> , 2012, 48, 579-581.	4.1	98
30	In Situ Precipitation of Amorphous Calcium Phosphate and Ciprofloxacin Crystals during the Formation of Chitosan Hydrogels and Its Application for Drug Delivery Purposes. <i>Langmuir</i> , 2012, 28, 15937-15946.	3.5	37
31	Osteoconductive Performance of Carbon Nanotube Scaffolds Homogeneously Mineralized by Flow-through Electrodeposition. <i>Advanced Functional Materials</i> , 2012, 22, 4411-4420.	14.9	46
32	Phosphate-functionalized Carbon Monoliths from Deep Eutectic Solvents and their Use as Monolithic Electrodes in Supercapacitors. <i>ChemSusChem</i> , 2012, 5, 1405-1409.	6.8	87
33	Three-dimensional microchanneled electrodes in flow-through configuration for bioanode formation and current generation. <i>Energy and Environmental Science</i> , 2011, 4, 4201.	30.8	112
34	Deep eutectic solvents as both precursors and structure directing agents in the synthesis of nitrogen doped hierarchical carbons highly suitable for CO <sub>2</sub> capture. <i>Energy and Environmental Science</i> , 2011, 4, 3535.	30.8	176
35	Chitosan Gelation Induced by the in Situ Formation of Gold Nanoparticles and Its Processing into Macroporous Scaffolds. <i>Biomacromolecules</i> , 2011, 12, 179-186.	5.4	61
36	Progress in Bionanocomposite and Bioinspired Foams. <i>Advanced Materials</i> , 2011, 23, 5262-5267.	21.0	58

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37	Deep Eutectic Solvent-Assisted Synthesis of Hierarchical Carbon Electrodes Exhibiting Capacitance Retention at High Current Densities. <i>Chemistry - A European Journal</i> , 2011, 17, 10533-10537.	3.3	86
38	Frontal polymerizations carried out in deep-eutectic mixtures providing both the monomers and the polymerization medium. <i>Chemical Communications</i> , 2011, 47, 5328.	4.1	127
39	Bacteria Incorporation in Deep Eutectic Solvents through Freeze-Drying. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2158-2162.	13.8	158
40	Block-Copolymer assisted synthesis of hierarchical carbon monoliths suitable as supercapacitor electrodes. <i>Journal of Materials Chemistry</i> , 2010, 20, 773-780.	6.7	114
41	Resorcinol-Formaldehyde Polycondensation in Deep Eutectic Solvents for the Preparation of Carbons and Carbon-Carbon Nanotube Composites. <i>Chemistry of Materials</i> , 2010, 22, 2711-2719.	6.7	126
42	Enzyme-induced graft polymerization for preparation of hydrogels: synergetic effect of laccase-immobilized-cryogels for pollutants adsorption. <i>Soft Matter</i> , 2010, 6, 3533.	2.7	21
43	PPO15-PEO22-PPO15 block copolymer assisted synthesis of monolithic macro- and microporous carbon aerogels exhibiting high conductivity and remarkable capacitance. <i>Journal of Materials Chemistry</i> , 2009, 19, 1236.	6.7	82
44	Freeze-Drying of Aqueous Solutions of Deep Eutectic Solvents: A Suitable Approach to Deep Eutectic Suspensions of Self-Assembled Structures. <i>Langmuir</i> , 2009, 25, 5509-5515.	3.5	380
45	Multiwall carbon nanotube scaffolds for tissue engineering purposes. <i>Biomaterials</i> , 2008, 29, 94-102.	11.4	402
46	Ice-Templated Materials: Sophisticated Structures Exhibiting Enhanced Functionalities Obtained after Unidirectional Freezing and Ice-Segregation-Induced Self-Assembly. <i>Chemistry of Materials</i> , 2008, 20, 634-648.	6.7	396
47	Preparative scale Baeyer-Villiger biooxidation at high concentration using recombinant <i>Escherichia coli</i> and in situ substrate feeding and product removal process. <i>Nature Protocols</i> , 2008, 3, 546-554.	12.0	78
48	Urea assisted hydroxyapatite mineralization on MWCNT/CHI scaffolds. <i>Journal of Materials Chemistry</i> , 2008, 18, 5933.	6.7	35
49	Enzymatic Synthesis of Amorphous Calcium Phosphate-Chitosan Nanocomposites and Their Processing into Hierarchical Structures. <i>Chemistry of Materials</i> , 2008, 20, 11-13.	6.7	49
50	Macroporous 3D Architectures of Self-Assembled MWCNT Surface Decorated with Pt Nanoparticles as Anodes for a Direct Methanol Fuel Cell. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5557-5560.	3.1	132
51	Hydrogel Scaffolds with Immobilized Bacteria for 3D Cultures. <i>Chemistry of Materials</i> , 2007, 19, 1968-1973.	6.7	56
52	Biocompatible MWCNT scaffolds for immobilization and proliferation of <i>E. coli</i> . <i>Journal of Materials Chemistry</i> , 2007, 17, 2992-2995.	6.7	74
53	Microbiological Transformations 57. Facile and Efficient Resin-Based in Situ SFPR Preparative-Scale Synthesis of an Enantiopure Unexpected Lactone Regioisomer via a Baeyer-Villiger Oxidation Process. <i>Organic Letters</i> , 2004, 6, 1955-1958.	4.6	55