

# Abel Garcia-Bernabe

## List of Publications by Citations

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44  
papers

635  
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14  
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23  
g-index

47  
ext. papers

717  
ext. citations

3.8  
avg, IF

3.97  
L-index

#	Paper	IF	Citations
44	Syntheses and phase-transfer properties of dendritic nanocarriers that contain perfluorinated shell structures. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 2822-30	4.8	74
43	Phosphoric Acid Doped Polybenzimidazole (PBI)/Zeolitic Imidazolate Framework Composite Membranes with Significantly Enhanced Proton Conductivity under Low Humidity Conditions. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	65
42	Supramolecular Immobilization of a Perfluoro-Tagged Pd-Catalyst with Dendritic Architectures and Application in Suzuki Reactions. <i>Advanced Synthesis and Catalysis</i> , <b>2005</b> , 347, 1389-1394	5.6	54
41	Bimetallic Pt-M electrocatalysts supported on single-wall carbon nanotubes for hydrogen and methanol electrooxidation in fuel cells applications. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 872-884	6.7	32
40	Ionic Liquid Composite Polybenzimidazol Membranes for High Temperature PEMFC Applications. <i>Polymers</i> , <b>2019</b> , 11,	4.5	31
39	Proton conducting electrospun sulfonated polyether ether ketone graphene oxide composite membranes. <i>RSC Advances</i> , <b>2017</b> , 7, 53481-53491	3.7	29
38	Synthesis and X-ray Crystallographic Characterization of (E(Diphenylphosphino)phenyl-C2,P)palladium Bromide. A Novel Tetranuclear Metalated Compound. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 6472-6475	5.1	29
37	Synthesis, reactivity, and X-ray crystallographic characterization of mono-, di-, and tetranuclear palladium(II)-metalated species. <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 5964-9	5.1	29
36	Structural and dielectric properties of cobaltacarborane composite polybenzimidazole membranes as solid polymer electrolytes at high temperature. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 10173-10184	3.6	21
35	Conductivity and Polarization Processes in Highly Cross-Linked Supported Ionic Liquid-Like Phases. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 7030-7037	3.8	18
34	Amorphous-smectic glassy main chain LCPs. II. Dielectric study of the glass transition. <i>Polymer</i> , <b>2004</b> , 45, 1533-1543	3.9	17
33	Proton Conductivity through Polybenzimidazole Composite Membranes Containing Silica Nanofiber Mats. <i>Polymers</i> , <b>2019</b> , 11,	4.5	16
32	Amorphous-Smectic Glassy Main-Chain LCPs, 1. Poly(ether esters) Derived from Hydroxybibenzoic Acid and (R,S)- and (R)-2-Methylpropane-1,3-diol. <i>Macromolecular Chemistry and Physics</i> , <b>2002</b> , 203, 2508-2515	2.6	15
31	Photochemical ligand rearrangement in dirhodium(II) compounds. Structure of Rh <sub>2</sub> (O <sub>2</sub> CCH <sub>3</sub> ) <sub>2</sub> ( $\eta$ -O <sub>2</sub> CCH <sub>3</sub> )[(C <sub>6</sub> H <sub>4</sub> )PPh <sub>2</sub> ]( $\eta$ -PCCl)(PCCl?P-ClC <sub>6</sub> H <sub>4</sub> )Ph <sub>2</sub> . <i>Inorganica Chimica Acta</i> , <b>1995</b> , 229, 203-209	2.7	15
30	Conductivity of composite membrane-based poly(ether-ether-ketone) sulfonated (SPEEK) nanofiber mats of varying thickness. <i>RSC Advances</i> , <b>2016</b> , 6, 56986-56999	3.7	14
29	Broadband Dielectric Spectroscopy Studies of Hyperbranched Polyglycerols. <i>Macromolecular Chemistry and Physics</i> , <b>2006</b> , 207, 970-977	2.6	14
28	Influence of the anion on diffusivity and mobility of ionic liquids composite polybenzimidazol membranes. <i>Electrochimica Acta</i> , <b>2020</b> , 354, 136666	6.7	13

27	A Deep Insight into Different Acidic Additives as Doping Agents for Enhancing Proton Conductivity on Polybenzimidazole Membranes. <i>Polymers</i> , <b>2020</b> , 12,	4.5	12
26	A new structural type of dinuclear rhodium(II) compounds: synthesis by serendipity and design; catalytic behaviour in carbene transfer reactions $\square$ <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1999</b> , 3493-3498		12
25	Ionic transport on composite polymers containing covalently attached and absorbed ionic liquid fragments. <i>Electrochimica Acta</i> , <b>2016</b> , 213, 887-897	6.7	12
24	Relaxation behavior of acrylate and methacrylate polymers containing dioxacyclopentane rings in the side chains. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2001</b> , 39, 286-299	2.6	10
23	Photo-assisted formation of a chelating diphos ligand from PPh <sub>3</sub> and a cyclometallated [P(C <sub>6</sub> H <sub>4</sub> )(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> ] $\square$ ligand. Crystal structure of Pd{ $\eta$ -o-[P(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> ] <sub>2</sub> (C <sub>6</sub> H <sub>4</sub> )}Br <sub>2</sub> . <i>Journal of Organometallic Chemistry</i> , <b>2000</b> , 596, 248-251	2.3	10
22	Free ion diffusivity and charge concentration on cross-linked polymeric ionic liquid iongel films based on sulfonated zwitterionic salts and lithium ions. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 17923-17932	3.6	8
21	Interconversion of mechanical and dielectrical relaxation measurements for dicyclohexylmethyl-2-methyl succinate. <i>Physical Review E</i> , <b>2005</b> , 72, 051505	2.4	8
20	Size-tunable micron-bubbles based on fluorine-fluorine interactions of perfluorinated dendritic polyglycerols. <i>ChemPhysChem</i> , <b>2010</b> , 11, 2617-22	3.2	7
19	Effects of different composition ratio on the dielectric relaxation and dynamic mechanical properties of poly(ε-dodecalactam-co-ε-caprolactam-co-propylene oxide) copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2010</b> , 48, 2518-2529	2.6	7
18	Effect of metallacarborane salt H[COSANE] doping on the performance properties of polybenzimidazole membranes for high temperature PEMFCs. <i>Soft Matter</i> , <b>2020</b> , 16, 7624-7635	3.6	7
17	Space charge measurements on different epoxy resin-alumina nanocomposites <b>2010</b> ,		6
16	Secondary and primary relaxations in hyperbranched polyglycerol: a comparative study in the frequency and time domains. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 124904	3.9	6
15	Dynamic Mechanical and Dielectric Relaxational Behavior of Poly(cyclohexylalkyl methacrylate)s. <i>Macromolecules</i> , <b>2001</b> , 34, 6312-6317	5.5	6
14	Polymer modified sulfonated PEEK ionomers membranes and the use of Ru <sub>3</sub> Pd <sub>6</sub> Pt as cathode catalyst for H <sub>2</sub> /O <sub>2</sub> fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 295-303	6.7	6
13	Dielectric properties of poly(triethylene glycol p , p ?-bibenzoate- co -( R )-(+)-3-methyl adipate). <i>Polymer</i> , <b>2001</b> , 42, 6793-6800	3.9	5
12	Dielectric relaxation behaviour of poly(cyclobutyl methacrylate)s. <i>Polymer International</i> , <b>2002</b> , 51, 1448-1458	3.5	4
11	Interconversion algorithm between mechanical and dielectric relaxation measurements for acetate of cis- and trans-2-phenyl-5-hydroxymethyl-1,3-dioxane. <i>Physical Review E</i> , <b>2015</b> , 92, 042307	2.4	3
10	Dielectric relaxational behavior of poly(diitaconate)s containing cyclic rings in the side chain. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2003</b> , 41, 1059-1069	2.6	3

9	Memory function for dielectric relaxation. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 11258-11263	3.9	3
8	Solid Polymer Electrolytes Based on Polylactic Acid Nanofiber Mats Coated with Polypyrrole. <i>Macromolecular Materials and Engineering</i> , <b>2021</b> , 306, 2000584	3.9	3
7	Fractional Fokker-Planck equation approach for the interconversion between dielectric and mechanical measurements. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 014912	2.5	2
6	Dynamic mechanical and dielectric relaxation behaviour of poly(methacrylate)s containing saturated rings with seven and eight members in the side-chains. <i>Polymer International</i> , <b>2002</b> , 51, 808-814	3.3	2
5	Continued-Fraction Expansion of Transport Coefficients with Fractional Calculus. <i>Mathematics</i> , <b>2016</b> , 4, 67	2.3	2
4	Water sorption by poly(tetrahydrofurfuril methacrylate)s. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2008</b> , 46, 109-120	2.6	1
3	Dielectric and Mechanical Relaxational Behavior of Poly (Chlorobenzyl Methacrylate)s. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2006</b> , 55, 1155-1169	3	1
2	Properties of the first and second order memory functions of dielectric relaxation. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 307-310, 288-295	3.9	1
1	Diffusivity and free anion concentration of ionic liquid composite polybenzimidazole membranes.. <i>RSC Advances</i> , <b>2021</b> , 11, 26379-26390	3.7	1