

Deazevedo, Er

List of Publications by Year in descending order

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33
papers

1,325
citations

567281

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477307

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docs citations

33
times ranked

2117
citing authors

#	ARTICLE	IF	CITATIONS
1	Folding of xylan onto cellulose fibrils in plant cell walls revealed by solid-state NMR. <i>Nature Communications</i> , 2016, 7, 13902.	12.8	287
2	Principles of centerband-only detection of exchange in solid-state nuclear magnetic resonance, and extension to four-time centerband-only detection of exchange. <i>Journal of Chemical Physics</i> , 2000, 112, 8988-9001.	3.0	159
3	Effects of pretreatment on morphology, chemical composition and enzymatic digestibility of eucalyptus bark: a potentially valuable source of fermentable sugars for biofuel production " part 1. <i>Biotechnology for Biofuels</i> , 2013, 6, 75.	6.2	108
4	A solid-state NMR study of the fast and slow dynamics of collagen fibrils at varying hydration levels. <i>Magnetic Resonance in Chemistry</i> , 2004, 42, 276-284.	1.9	88
5	Evaluating the composition and processing potential of novel sources of Brazilian biomass for sustainable biorenewables production. <i>Biotechnology for Biofuels</i> , 2014, 7, 10.	6.2	87
6	Observation of Time-Invariant Coherence in a Nuclear Magnetic Resonance Quantum Simulator. <i>Physical Review Letters</i> , 2016, 117, 160402.	7.8	87
7	Structural and compositional changes in sugarcane bagasse subjected to hydrothermal and organosolv pretreatments and their impacts on enzymatic hydrolysis. <i>Industrial Crops and Products</i> , 2018, 113, 64-74.	5.2	84
8	Studies of the Compositions of Humic Acids from Amazonian Dark Earth Soils. <i>Environmental Science & Technology</i> , 2007, 41, 400-405.	10.0	76
9	Pure-Exchange Solid-State NMR. <i>Journal of Magnetic Resonance</i> , 2000, 142, 86-96.	2.1	45
10	Defining functional diversity for lignocellulose degradation in a microbial community using multi-omics studies. <i>Biotechnology for Biofuels</i> , 2018, 11, 166.	6.2	44
11	Characterisation of black carbon-rich samples by ¹³ C solid-state nuclear magnetic resonance. <i>Die Naturwissenschaften</i> , 2006, 93, 447-450.	1.6	32
12	Targeted metatranscriptomics of compost-derived consortia reveals a GH11 exerting an unusual exo-1,4- β -xylanase activity. <i>Biotechnology for Biofuels</i> , 2017, 10, 254.	6.2	30
13	Hemocyanin facilitates lignocellulose digestion by wood-boring marine crustaceans. <i>Nature Communications</i> , 2018, 9, 5125.	12.8	29
14	Coherence orders, decoherence, and quantum metrology. <i>Physical Review A</i> , 2018, 98, .	2.5	25
15	NMR investigation of commercial carbon black filled vulcanized natural rubber exposed to petrodiesel/biodiesel mixtures. <i>Fuel</i> , 2016, 186, 50-57.	6.4	16
16	Synthesis and application of sugarcane bagasse cellulose mixed esters. Part I: Removal of Co ²⁺ and Ni ²⁺ from single spiked aqueous solutions in batch mode using sugarcane bagasse cellulose succinate phthalate. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 678-691.	9.4	15
17	Molecular Origin of Charge Traps in Polyfluorene-Based Semiconductors. <i>Macromolecules</i> , 2013, 46, 7865-7873.	4.8	12
18	Sobre uma degenerescência acidental nos deslocamentos químicos de RMN de ³¹ P{ ¹ H} em complexos difosfônicos de rutênio. <i>Química Nova</i> , 2008, 31, 807-812.	0.3	11

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19	Quantum information processing by nuclear magnetic resonance on quadrupolar nuclei. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 4770-4793.	3.4	11
20	Spin coherent states in NMR quadrupolar system: experimental and theoretical applications. European Physical Journal D, 2013, 67, 1.	1.3	11
21	There is more to quantum interferometry than entanglement. Physical Review A, 2017, 95, .	2.5	11
22	Avoiding Bias Effects in NMR Experiments for Heteronuclear Dipole-Dipole Coupling Determinations: Principles and Application to Organic Semiconductor Materials. ChemPhysChem, 2013, 14, 3146-3155.	2.1	10
23	Dipolar filtered magic-sandwich-echoes as a tool for probing molecular motions using time domain NMR. Journal of Magnetic Resonance, 2017, 285, 47-54.	2.1	10
24	Effects of Lithium Doping on the Polymer Chain Dynamics in Siloxane/Poly(Ethylene Oxide) Ormolyte Nanocomposites: A ¹³ C and ⁷ Li Exchange Solid-State NMR Study. Chemistry of Materials, 2007, 19, 1780-1789.	6.7	9
25	Synthesis and application of sugarcane bagasse cellulose mixed esters. Part II: Removal of Co ²⁺ and Ni ²⁺ from single spiked aqueous solutions in batch and continuous mode. Journal of Colloid and Interface Science, 2019, 552, 337-350.	9.4	8
26	Color removal by coagulation, flocculation and sedimentation from water containing humic substances with different apparent molecular sizes. Journal of Water Supply: Research and Technology - AQUA, 2007, 56, 327-333.	1.4	7
27	Investigation by combined solid-state NMR and SAXS methods of the morphology and domain size in polystyrene- <i>b</i> -polyethylene oxide- <i>b</i> -polystyrene triblock copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 55-64.	2.1	7
28	Molecular dynamics and local molecular conformation in solid materials studied by nuclear magnetic resonance. Brazilian Journal of Physics, 2006, 36, 61.	1.4	4
29	Molecular relaxations in polyfluorene based cast films. Synthetic Metals, 2009, 159, 2289-2292.	3.9	2
30	Utilização de um espectrografo de projeção como uma ferramenta para demonstrações sobre polarização da luz. Química Nova, 2010, 33, 1204-1210.	0.3	0
31	Construção de um espectrografo de projeção e sua utilização em demonstrações de espectroscopia óptica. Química Nova, 2008, 31, 2199-2204.	0.3	0
32	USE OF A LINEAR LIGHT SENSOR AS A TEACHING RESOURCE FOR DEMONSTRATING PRINCIPLES OF DIFFRACTION AND SPECTROSCOPY. Química Nova, 2015, .	0.3	0
33	A control system for performing automated time-domain NMR measurements in Bruker Minispec spectrometers. IEEE Latin America Transactions, 2022, 20, 1025-1031.	1.6	0