

Brenno A D Neto

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114
papers

3,782
citations

37
h-index

57
g-index

127
ext. papers

4,248
ext. citations

4.3
avg, IF

5.51
L-index

#	Paper	IF	Citations
114	2,1,3-Benzothiadiazole and Derivatives: Synthesis, Properties, Reactions, and Applications in Light Technology of Small Molecules. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 228-255	3.2	202
113	Photophysical and electrochemical properties of extended molecular 2,1,3-benzothiadiazoles. <i>Tetrahedron</i> , 2005 , 61, 10975-10982	2.4	190
112	Benzothiadiazole Derivatives as Fluorescence Imaging Probes: Beyond Classical Scaffolds. <i>Accounts of Chemical Research</i> , 2015 , 48, 1560-9	24.3	162
111	What do we know about multicomponent reactions? Mechanisms and trends for the Biginelli, Hantzsch, Mannich, Passerini and Ugi MCRs. <i>RSC Advances</i> , 2014 , 4, 54282-54299	3.7	157
110	Inkjet Printing of Lanthanide-Organic Frameworks for Anti-Counterfeiting Applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27115-23	9.5	111
109	Recent developments in the chemistry of deoxyribonucleic acid (DNA) intercalators: principles, design, synthesis, applications and trends. <i>Molecules</i> , 2009 , 14, 1725-46	4.8	105
108	Are Molecular 5,8-Extended Quinoxaline Derivatives Good Chromophores for Photoluminescence Applications?. <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 4924-4933	3.2	96
107	The Biginelli reaction with an imidazolium-tagged recyclable iron catalyst: kinetics, mechanism, and antitumoral activity. <i>Chemistry - A European Journal</i> , 2013 , 19, 4156-68	4.8	94
106	1-n-Butyl-3-methylimidazolium tetrachloro-indate (BMI ⁺ InCl ₄ BMI ⁻ InCl ₄) as a media for the synthesis of biodiesel from vegetable oils. <i>Journal of Catalysis</i> , 2007 , 249, 154-161	7.3	90
105	Carbon dots (C-dots) from cow manure with impressive subcellular selectivity tuned by simple chemical modification. <i>Chemistry - A European Journal</i> , 2015 , 21, 5055-60	4.8	81
104	On the species involved in the vaporization of imidazolium ionic liquids in a steam-distillation-like process. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7251-4	16.4	81
103	Mechanistic studies on Lewis acid catalyzed Biginelli reactions in ionic liquids: evidence for the reactive intermediates and the role of the reagents. <i>Journal of Organic Chemistry</i> , 2012 , 77, 10184-93	4.2	79
102	Ionic liquid supported acid/base-catalyzed production of biodiesel. <i>ChemSusChem</i> , 2008 , 1, 759-62	8.3	78
101	Facts, presumptions, and myths on the solvent-free and catalyst-free Biginelli reaction. What is catalysis for?. <i>Journal of Organic Chemistry</i> , 2014 , 79, 3383-97	4.2	76
100	Ionic Liquid Effect over the Biginelli Reaction under Homogeneous and Heterogeneous Catalysis. <i>ACS Catalysis</i> , 2013 , 3, 1420-1430	13.1	74
99	Selective mitochondrial staining with small fluorescent probes: importance, design, synthesis, challenges and trends for new markers. <i>RSC Advances</i> , 2013 , 3, 5291	3.7	72
98	The role of ionic liquids in co-catalysis of Baylis-Hillman reaction: interception of supramolecular species via electrospray ionization mass spectrometry. <i>Journal of Physical Organic Chemistry</i> , 2006 , 19, 731-736	2.1	65

97	Task-specific ionic liquid incorporating anionic heteropolyacid-catalyzed Hantzsch and Mannich multicomponent reactions. Ionic liquid effect probed by ESI-MS(/MS). <i>Tetrahedron</i> , 2014 , 70, 3306-3313	2.4	63
96	Probing the mechanism of the Ugi four-component reaction with charge-tagged reagents by ESI-MS(/MS). <i>Chemical Communications</i> , 2014 , 50, 338-40	5.8	59
95	New sensitive fluorophores for selective DNA detection. <i>Organic Letters</i> , 2007 , 9, 4001-4	6.2	59
94	Reductive sulfur extrusion reaction of 2,1,3-benzothiadiazole compounds: a new methodology using NaBH ₄ /CoCl ₂ ·6H ₂ O(cat) as the reducing system. <i>Tetrahedron Letters</i> , 2005 , 46, 6843-6846	2	59
93	Enzyme-mediated epoxidation of methyl oleate supported by imidazolium-based ionic liquids. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011 , 68, 98-103		57
92	Intermolecular hydroamination and hydroarylation reactions of alkenes in ionic liquids. <i>Tetrahedron Letters</i> , 2006 , 47, 6775-6779	2	57
91	Pronounced ionic liquid effect in the synthesis of biologically active isatin-3-oxime derivatives under acid catalysis. <i>Tetrahedron Letters</i> , 2008 , 49, 5639-5641	2	55
90	Synthesis, properties and highly selective mitochondria staining with novel, stable and superior benzothiadiazole fluorescent probes. <i>RSC Advances</i> , 2012 , 2, 1524-1532	3.7	52
89	Review on the Ugi Multicomponent Reaction Mechanism and the Use of Fluorescent Derivatives as Functional Chromophores. <i>ACS Omega</i> , 2020 , 5, 972-979	3.9	51
88	Heteropolyacid-Containing Ionic Liquid-Catalyzed Multicomponent Synthesis of Bridgehead Nitrogen Heterocycles: Mechanisms and Mitochondrial Staining. <i>Journal of Organic Chemistry</i> , 2018 , 83, 4044-4053	4.2	50
87	On the use of 2,1,3-benzothiadiazole derivatives as selective live cell fluorescence imaging probes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 6001-7	2.9	50
86	Charge-tagged acetate ligands as mass spectrometry probes for metal complexes investigations: applications in Suzuki and Heck phosphine-free reactions. <i>Journal of Organic Chemistry</i> , 2011 , 76, 10140-10142	4.2	47
85	Studies on the Eschenmoser coupling reaction and insights on its mechanism. Application in the synthesis of Norallosedamine and other alkaloids. <i>Tetrahedron</i> , 2009 , 65, 2484-2496	2.4	47
84	Vapors from Ionic Liquids: Reconciling Simulations with Mass Spectrometric Data. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3435-41	6.4	46
83	Application of Chiral Ionic Liquids for Asymmetric Induction in Catalysis. <i>Current Organic Chemistry</i> , 2009 , 13, 1259-1277	1.7	44
82	Design, synthesis and application of fluorescent 2,1,3-benzothiadiazole-triazole-linked biologically active lapachone derivatives. <i>New Journal of Chemistry</i> , 2014 , 38, 2569	3.6	43
81	Ionically tagged iron complex-catalyzed epoxidation of olefins in imidazolium-based ionic liquids. <i>ChemSusChem</i> , 2012 , 5, 716-26	8.3	42
80	Designed benzothiadiazole fluorophores for selective mitochondrial imaging and dynamics. <i>Chemistry - A European Journal</i> , 2014 , 20, 15360-74	4.8	40

79	Morita-Baylis-Hillman reaction: ESI-MS(/MS) investigation with charge tags and ionic liquid effect origin revealed by DFT calculations. <i>Journal of Organic Chemistry</i> , 2014 , 79, 5239-48	4.2	40
78	Mechanistic knowledge and noncovalent interactions as the key features for enantioselective catalysed multicomponent reactions: a critical review. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 7260-7269	3.9	38
77	The Biginelli reaction under batch and continuous flow conditions: catalysis, mechanism and antitumoral activity. <i>RSC Advances</i> , 2015 , 5, 48506-48515	3.7	37
76	Bioimaging, cellular uptake and dynamics in living cells of a lipophilic fluorescent benzothiadiazole at low temperature (4 °C). <i>Chemical Science</i> , 2014 , 5, 3995	9.4	33
75	Water-soluble Tb ³⁺ and Eu ³⁺ complexes with ionophilic (ionically tagged) ligands as fluorescence imaging probes. <i>Inorganic Chemistry</i> , 2013 , 52, 10199-205	5.1	33
74	The impressive chemistry, applications and features of ionic liquids: properties, catalysis & catalysts and trends. <i>Journal of the Brazilian Chemical Society</i> , 2012 , 23, 987-1007	1.5	33
73	Combined Role of the Asymmetric Counteranion-Directed Catalysis (ACDC) and Ionic Liquid Effect for the Enantioselective Biginelli Multicomponent Reaction. <i>Journal of Organic Chemistry</i> , 2018 , 83, 12143-12153	4.2	33
72	Probing deep into the interaction of a fluorescent chalcone derivative and bovine serum albumin (BSA): an experimental and computational study. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 4764-773-9	3.9	28
71	Tuning the Biginelli reaction mechanism by the ionic liquid effect: the combined role of supported heteropolyacid derivatives and acidic strength.. <i>RSC Advances</i> , 2019 , 9, 27125-27135	3.7	27
70	ESIPT or not ESIPT? Revisiting recent results on 2,1,3-benzothiadiazole under the TD-DFT light. <i>RSC Advances</i> , 2014 , 4, 14189-14192	3.7	27
69	Selective and efficient mitochondrial staining with designed 2,1,3-benzothiadiazole derivatives as live cell fluorescence imaging probes. <i>Journal of the Brazilian Chemical Society</i> , 2012 , 23, 770-781	1.5	26
68	Catalytic Aminolysis (Amide Formation) from Esters and Carboxylic Acids: Mechanism, Enhanced Ionic Liquid Effect, and its Origin. <i>ChemCatChem</i> , 2011 , 3, 1911-1920	5.2	26
67	The influence of the ring size of thiolactams in the Eschenmoser coupling reaction in presence of DBU. Formation of bicyclic thiazolidinones or thioimines. <i>Tetrahedron Letters</i> , 2004 , 45, 1437-1440	2	26
66	Impact of kinesin Eg5 inhibition by 3,4-dihydropyrimidin-2(1H)-one derivatives on various breast cancer cell features. <i>BMC Cancer</i> , 2015 , 15, 283	4.8	25
65	Addition of activated olefins to cyclic N-acyliminium ions in ionic liquids. <i>Tetrahedron Letters</i> , 2006 , 47, 1669-1672	2	25
64	On the selective detection of duplex deoxyribonucleic acids by 2,1,3-benzothiadiazole fluorophores. <i>Molecular BioSystems</i> , 2010 , 6, 967-75		23
63	In situ generated palladium nanoparticles in imidazolium-based ionic liquids: a versatile medium for an efficient and selective partial biodiesel hydrogenation. <i>Catalysis Science and Technology</i> , 2011 , 1, 480-5	5.5	23
62	A concise and stereoselective synthesis of (+)-erythro-methylphenidate. <i>Tetrahedron Letters</i> , 2003 , 44, 2923-2926	2	23

61	Magnetic ionic liquids produced by the dispersion of magnetic nanoparticles in 1-n-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide (BMI.NTF2). <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5458-65	9.5	22
60	Iron complex with ionic tag-catalyzed olefin reduction under oxidative conditions--a different reaction for iron. <i>ChemSusChem</i> , 2012 , 5, 2383-9	8.3	21
59	Condensed, solution and gas phase behaviour of mono- and dinuclear 2,6-diacetylpyridine (dap) hydrazone copper complexes probed by X-ray, mass spectrometry and theoretical calculations. <i>Dalton Transactions</i> , 2013 , 42, 11497-506	4.3	21
58	From Live Cells to : Selective Staining and Quantification of Lipid Structures Using a Fluorescent Hybrid Benzothiadiazole Derivative. <i>ACS Omega</i> , 2018 , 3, 3874-3881	3.9	20
57	Phosphine-free Heck reaction: mechanistic insights and catalysis in water using a charge-tagged palladium complex. <i>New Journal of Chemistry</i> , 2014 , 38, 2958	3.6	19
56	Selective endocytic trafficking in live cells with fluorescent naphthoxazoles and their boron complexes. <i>Chemical Communications</i> , 2015 , 51, 9141-4	5.8	18
55	Fluorescent Peptoids as Selective Live Cell Imaging Probes. <i>Journal of Organic Chemistry</i> , 2016 , 81, 2646-51	4.1	18
54	N-heterocyclic carbenes with negative-charge tags: direct sampling from ionic liquid solutions. <i>RSC Advances</i> , 2012 , 2, 3201	3.7	18
53	Designed non-symmetrical 4,7-pi-extended-2,1,3-benzothiadiazole derivatives: Synthesis guided by DFT predictions. <i>Journal of Physical Organic Chemistry</i> , 2014 , 27, 303-309	2.1	17
52	Steady-state kinetics of indole-3-glycerol phosphate synthase from Mycobacterium tuberculosis. <i>Archives of Biochemistry and Biophysics</i> , 2009 , 486, 19-26	4.1	17
51	Identification of carotenoid isomers in crude and bleached palm oils by mass spectrometry. <i>LWT - Food Science and Technology</i> , 2018 , 89, 631-637	5.4	17
50	Insights on the Petasis BoronoMannich multicomponent reaction mechanism. <i>RSC Advances</i> , 2015 , 5, 76337-76341	3.7	16
49	Structural Organization and Supramolecular Interactions of the Task-Specific Ionic Liquid 1-Methyl-3-carboxymethylimidazolium Chloride: Solid, Solution, and Gas Phase Structures. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17878-17889	3.8	16
48	Styrene polymerization efficiently catalyzed by iron-containing imidazolium-based ionic liquids: Reaction mechanism and enhanced ionic liquid effect. <i>Catalysis Communications</i> , 2015 , 63, 66-73	3.2	15
47	Deciphering the Dynamics of Organic Nanoaggregates with AIEE Effect and Excited States: Lipophilic Benzothiadiazole Derivatives as Selective Cell Imaging Probes. <i>Journal of Organic Chemistry</i> , 2020 , 85, 12614-12634	4.2	15
46	Redox Center Modification of Lapachones towards the Synthesis of Nitrogen Heterocycles as Selective Fluorescent Mitochondrial Imaging Probes. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 3763-3773	3.2	14
45	Fluorescent oxazoles from quinones for bioimaging applications. <i>RSC Advances</i> , 2016 , 6, 76056-76063	3.7	14
44	When the strategies for cellular selectivity fail. Challenges and surprises in the design and application of fluorescent benzothiadiazole derivatives for mitochondrial staining. <i>Organic Chemistry Frontiers</i> , 2019 , 6, 2371-2384	5.2	13

43	Cationic miniemulsion polymerization of styrene mediated by imidazolium based ionic liquid. <i>European Polymer Journal</i> , 2018 , 104, 51-56	5.2	13
42	Nickel-containing di-charged imidazolium ligand with high crystalline organization. Interception and characterization of a transient carbene/cation species. <i>Inorganica Chimica Acta</i> , 2011 , 370, 505-512	2.7	13
41	Au nanoparticle-poly(ionic liquid) nanocomposite electrode for the voltammetric detection of triclosan in lake water and toothpaste samples. <i>Microchemical Journal</i> , 2020 , 152, 104421	4.8	13
40	Palladium Catalyst with Task-Specific Ionic Liquid Ligands: Intracellular Reactions and Mitochondrial Imaging with Benzothiadiazole Derivatives. <i>Journal of Organic Chemistry</i> , 2019 , 84, 5118-5128	4.2	12
39	Organoindate Room Temperature Ionic Liquid: Synthesis, Physicochemical Properties and Application. <i>Synthesis</i> , 2004 , 2004, 1155-1158	2.9	12
38	Synthesis, Structure, Properties, and Bioimaging of a Fluorescent Nitrogen-Linked Bisbenzothiadiazole. <i>Journal of Organic Chemistry</i> , 2016 , 81, 2958-65	4.2	12
37	Photocatalytic Reverse Semi-Combustion Driven by Ionic Liquids. <i>ChemSusChem</i> , 2019 , 12, 1011-1016	8.3	9
36	Preferential Mitochondrial Localization of a Goniotalamin Fluorescent Derivative. <i>ACS Omega</i> , 2017 , 2, 3774-3784	3.9	8
35	Catalytic Approaches to Multicomponent Reactions: A Critical Review and Perspectives on the Roles of Catalysis. <i>Molecules</i> , 2021 , 27,	4.8	8
34	An ionically tagged water-soluble artificial enzyme promotes the dephosphorylation reaction with nitroimidazole: enhanced ionic liquid effect and mechanism. <i>Journal of Organic Chemistry</i> , 2015 , 80, 5979-83	4.2	7
33	Down- and Up-Conversion Photoluminescence of Carbon-Dots from Brewing Industry Waste: Application in Live Cell-Imaging Experiments. <i>Journal of the Brazilian Chemical Society</i> , 2015 ,	1.5	7
32	Expanding the Biological Application of Fluorescent Benzothiadiazole Derivatives: A Phenotypic Screening Strategy for Anthelmintic Drug Discovery Using. <i>SLAS Discovery</i> , 2019 , 24, 755-765	3.4	6
31	Influence of hydrodynamic conditions on the degradation of 1-butyl-3-methylimidazolium chloride solutions on boron-doped diamond anodes. <i>Chemosphere</i> , 2019 , 224, 343-350	8.4	6
30	Plasma membrane imaging with a fluorescent benzothiadiazole derivative. <i>Beilstein Journal of Organic Chemistry</i> , 2019 , 15, 2644-2654	2.5	6
29	The catalytic mechanism of indole-3-glycerol phosphate synthase (IGPS) investigated by electrospray ionization (tandem) mass spectrometry. <i>Tetrahedron Letters</i> , 2008 , 49, 5914-5917	2	6
28	Synthetic enzyme-catalyzed multicomponent reaction for Isoxazol-5(4)-one Syntheses, their properties and biological application; why should one study mechanisms?. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 1514-1531	3.9	6
27	How and Why to Investigate Multicomponent Reactions Mechanisms? A Critical Review. <i>Chemical Record</i> , 2021 , 21, 2762-2781	6.6	6
26	Appending ionic liquids to fluorescent benzothiadiazole derivatives: Light up and selective lysosome staining. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128530	8.5	5

25	Influence of the current density on the electrochemical treatment of concentrated 1-butyl-3-methylimidazolium chloride solutions on diamond electrodes. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 19084-95	5.1	5
24	Fluorescent Benzosenadiazoles: Synthesis, Characterization, and Quantification of Intracellular Lipid Droplets and Multicellular Model Staining. <i>Journal of Organic Chemistry</i> , 2020 , 85, 10561-10573	4.2	5
23	High Molecular Weight Polystyrene Obtained by Cationic Emulsion Polymerization Catalyzed by Imidazolium-Based Ionic Liquid. <i>Macromolecular Reaction Engineering</i> , 2019 , 13, 1800061	1.5	5
22	Plasma membrane staining with fluorescent hybrid benzothiadiazole and coumarin derivatives: Tuning the cellular selection by molecular design. <i>Dyes and Pigments</i> , 2021 , 186, 109005	4.6	5
21	A benzothiadiazole-quinoline hybrid sensor for specific bioimaging and surgery procedures in mice. <i>Sensors and Actuators B: Chemical</i> , 2021 , 328, 128998	8.5	4
20	Is the formation of N-heterocyclic carbenes (NHCs) a feasible mechanism for the distillation of imidazolium ionic liquids?. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24716-24725	3.6	4
19	Charge-tagged N-heterocyclic carbenes (NHC): Direct transfer from ionic liquid solutions and long-lived nature in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1021-1029	3.5	3
18	Fluorescent Benzothiadiazole Derivatives as Fluorescence Imaging Dyes: A Decade of New Generation Probes. <i>Chemistry - A European Journal</i> , 2021 ,	4.8	3
17	From cow manure to bioactive carbon dots: a light-up probe for bioimaging investigations, glucose detection and potential immunotherapy agent for melanoma skin cancer.. <i>RSC Advances</i> , 2021 , 11, 6346-6352	3.7	3
16	Synthesis and enzymatic evaluation of the guanosine analogue 2-amino-6-mercapto-7-methylpurine ribonucleoside (MESG): insights into the phosphorolysis reaction mechanism based on the blueprint transition state: SN1 or SN2?. <i>Journal of the Brazilian Chemical Society</i> , 2010 , 21, 151-156	1.5	2
15	Thermal performance of nanoencapsulated phase change material in high molecular weight polystyrene. <i>Polimeros</i> , 2020 , 30,	1.6	2
14	Ionic Liquid Effect Probed by Nuclear Magnetic Resonance: NMR Approaches to Catalytic Reactions Performed in Ionic Liquids. <i>Current Organic Chemistry</i> , 2013 , 17, 273-282	1.7	2
13	Solid, Solution and Gas Phase Interactions of an Imidazolium-Based Task-Specific Ionic Liquid Derived from Natural Kojic Acid. <i>Journal of the Brazilian Chemical Society</i> , 2014 ,	1.5	2
12	Indium complex with task-specific ionic liquid ligands: Ligand to ligand charge transfer in the excited state investigation and reliable DFT predictions. <i>Journal of Luminescence</i> , 2020 , 225, 117391	3.8	2
11	Synthesis and Biological Investigation of (+)-JD1, an Organometallic BET Bromodomain Inhibitor. <i>Organometallics</i> , 2020 , 39, 408-416	3.8	2
10	Effect of heterocyclic nitrogen ionic liquid additives on the rate of backreaction in DSSCs: An electrochemical characterization. <i>Journal of Science: Advanced Materials and Devices</i> , 2021 , 6, 483-487	4.2	2
9	What do we know about the ionic liquid effect in catalyzed multicomponent reactions?: A critical review. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022 , 35, 100608	7.9	2
8	Exploratory comparisons between different anti-mitotics in clinically-used drug combination in triple negative breast cancer. <i>Oncotarget</i> , 2021 , 12, 1920-1936	3.3	1

7	Solvent Screening Is Not Solvent Effect: A Review on the Most Neglected Aspect of Multicomponent Reactions. <i>European Journal of Organic Chemistry</i> ,	3.2	1
6	ε-caprolactone ring-opening polymerization catalyzed by imidazolium-based ionic liquid under mild reaction conditions. <i>Journal of Polymer Research</i> , 2022 , 29, 1	2.7	0
5	On the Role of Metal-Containing Imidazolium-Based Ionic Liquid Catalysts in the Formation of Tailored Polystyrene. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 21685-21699	3.9	0
4	Reverse Semi-Combustion Driven by Titanium Dioxide-Ionic Liquid Hybrid Photocatalyst. <i>ChemSusChem</i> , 2020 , 13, 5580-5585	8.3	0
3	Front Cover: Redox Center Modification of Lapachones towards the Synthesis of Nitrogen Heterocycles as Selective Fluorescent Mitochondrial Imaging Probes (Eur. J. Org. Chem. 26/2017). <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 3738-3738	3.2	
2	Editorial (Hot Topic: Between Revolution and Ignorance: The Two Worlds of Ionic Liquids). <i>Current Organic Chemistry</i> , 2013 , 17, 203-203	1.7	
1	CHAPTER 17:Ionic Liquid Effect in Catalysed Multicomponent Reactions. <i>RSC Catalysis Series</i> , 2019 , 377-392		