Alessandro Barge

List of Publications by Year in descending order

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		126907	123424
105	4,135	33	61
papers	citations	h-index	g-index
113 all docs	113 docs citations	113 times ranked	4494 citing authors

#	Article	IF	CITATIONS
1	Paramagnetic Lanthanide(III) complexes as pH-sensitive chemical exchange saturation transfer (CEST) contrast agents for MRI applications. Magnetic Resonance in Medicine, 2002, 47, 639-648.	3.0	365
2	NMR, Relaxometric, and Structural Studies of the Hydration and Exchange Dynamics of Cationic Lanthanide Complexes of Macrocyclic Tetraamide Ligands. Journal of the American Chemical Society, 1999, 121, 5762-5771.	13.7	267
3	How to determine free Gd and free ligand in solution of Gd chelates. A technical note. Contrast Media and Molecular Imaging, 2006, 1, 184-188.	0.8	249
4	The synthesis and application of polyamino polycarboxylic bifunctional chelating agents. Chemical Society Reviews, 2011, 40, 3019.	38.1	153
5	Crystal structure and solution dynamics of the lutetium(III) chelate of DOTA. Inorganica Chimica Acta, 1996, 246, 423-429.	2.4	141
6	Direct NMR Spectroscopic Observation of a Lanthanide oordinated Water Molecule whose Exchange Rate Is Dependent on the Conformation of the Complexes. Angewandte Chemie - International Edition, 1998, 37, 2673-2675.	13.8	133
7	PrototropicvsWhole Water Exchange Contributions to the Solvent Relaxation Enhancement in the Aqueous Solution of a Cationic Gd3+Macrocyclic Complex. Journal of the American Chemical Society, 1997, 119, 4767-4768.	13.7	108
8	Alkyne–azide click reaction catalyzed by metallic copper under ultrasound. Nature Protocols, 2010, 5, 607-616.	12.0	103
9	Targeting Cells with MR Imaging Probes Based on Paramagnetic Gd(III) Chelates. Current Pharmaceutical Biotechnology, 2004, 5, 509-518.	1.6	97
10	Syntheses and Relaxation Properties of Mixed Gadolinium Hydroxypyridinonate MRI Contrast Agents. Inorganic Chemistry, 2000, 39, 5747-5756.	4.0	95
11	Cellular labeling with Gd(III) chelates: only high thermodynamic stabilities prevent the cells acting as â€~sponges' of Gd3+ ions. Contrast Media and Molecular Imaging, 2006, 1, 23-29.	0.8	89
12	A Novel Compound in the Lanthanide(III) DOTA Series. X-ray Crystal and Molecular Structure of the Complex Na[La(DOTA)La(HDOTA)]·10H2O. Inorganic Chemistry, 1997, 36, 4287-4289.	4.0	87
13	Optimization of the Relaxivity of MRI Contrast Agents:  Effect of Poly(ethylene glycol) Chains on the Water-Exchange Rates of GdIII Complexes. Journal of the American Chemical Society, 2001, 123, 10758-10759.	13.7	87
14	Ternary Complexes between Cationic GdIII Chelates and Anionic Metabolites in Aqueous Solution: An NMR Relaxometric Study. Chemistry - A European Journal, 2003, 9, 2102-2109.	3.3	87
15	Ultrasound-Promoted Copper-Catalyzed Azideâ^'Alkyne Cycloaddition. ACS Combinatorial Science, 2010, 12, 13-15.	3.3	82
16	Efficient, solventless N-Boc protection of amines carried out at room temperature using sulfamic acid as recyclable catalyst. Tetrahedron Letters, 2007, 48, 8318-8322.	1.4	81
17	A Multinuclear NMR Study on the Structure and Dynamics of Lanthanide(III) Complexes of the Poly(amino carboxylate) ECTA4-in Aqueous Solution. Inorganic Chemistry, 1997, 36, 5104-5112.	4.0	74
18	Dependence of the relaxivity and luminescence of gadolinium and europium amino-acid complexes on hydrogencarbonate and pH. Chemical Communications, 1999, 1047-1048	4.1	71

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19	Controlling the variation of axial water exchange rates in macrocyclic lanthanide(iii) complexesElectronic supplementary information (ESI) available: experimental section. See http://www.rsc.org/suppdata/cc/b2/b202862j/. Chemical Communications, 2002, , 1120-1121.	4.1	69
20	In Vitro and in Vivo Magnetic Resonance Detection of Tumor Cells by Targeting Glutamine Transporters with Gd-Based Probes. Journal of Medicinal Chemistry, 2006, 49, 4926-4936.	6.4	69
21	UAE, MAE, SFE-CO2 and classical methods for the extraction of Mitragyna speciosa leaves. Ultrasonics Sonochemistry, 2012, 19, 591-595.	8.2	62
22	Synthesis of cyclodextrinâ€based polymers and their use as debittering agents. Journal of Applied Polymer Science, 2008, 107, 2549-2557.	2.6	61
23	Heck Reactions with Very Low Ligandless Catalyst Loads Accelerated by Microwaves or Simultaneous Microwaves/Ultrasound Irradiation. Advanced Synthesis and Catalysis, 2007, 349, 2338-2344.	4.3	57
24	MRIâ€Guided Neutron Capture Therapy by Use of a Dual Gadolinium/Boron Agent Targeted at Tumour Cells through Upregulated Lowâ€Density Lipoprotein Transporters. Chemistry - A European Journal, 2011, 17, 8479-8486.	3.3	56
25	Bifunctional ligands based on the DOTA-monoamide cage. Organic and Biomolecular Chemistry, 2008, 6, 1176.	2.8	49
26	New cyclodextrin dimers and trimers capable of forming supramolecular adducts with shape-specific ligands. Organic and Biomolecular Chemistry, 2009, 7, 370-379.	2.8	42
27	A Calix[4]arene GdIII Complex Endowed with High Stability, Relaxivity, and Binding Affinity to Serum Albumin. Angewandte Chemie - International Edition, 2001, 40, 4737-4739.	13.8	41
28	Pd-catalyzed Reactions Promoted by Ultrasound and/or Microwave Irradiation. Current Organic Chemistry, 2008, 12, 1588-1612.	1.6	39
29	Highly shifted LIPOCEST agents based on the encapsulation of neutral polynuclear paramagnetic shift reagents. Chemical Communications, 2008, , 600-602.	4.1	38
30	Fast, Solvent-Free, Microwave-Promoted Friedläder Annulation with a Reusable Solid Catalyst. Synthetic Communications, 2009, 40, 120-128.	2.1	38
31	Recent advances in the synthesis of cyclodextrin derivatives under microwaves and power ultrasound. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 57, 3-7.	1.6	36
32	Click Chemistry Under Microwave or Ultrasound Irradiation. Current Organic Chemistry, 2011, 15, 189-203.	1.6	36
33	Porphyrin-Loaded Pluronic Nanobubbles: A New US-Activated Agent for Future Theranostic Applications. Bioconjugate Chemistry, 2018, 29, 234-240.	3.6	36
34	Synthesis of Gd(III)-C-palmitamidomethyl-C′-DOTAMA-C6-o-carborane: a new dual agent for innovative MRI/BNCT applications. Organic and Biomolecular Chemistry, 2008, 6, 4460.	2.8	33
35	Magnetic resonance imaging visualization of targeted cells by the internalization of supramolecular adducts formed between avidin and biotinylated Gd3+ chelates. Journal of Biological Inorganic Chemistry, 2005, 10, 78-86.	2.6	32
36	A Carboraneâ€Derivative "Click―Reaction under Heterogeneous Conditions for the Synthesis of a Promising Lipophilic MRI/GdBNCT Agent. Chemistry - A European Journal, 2013, 19, 721-728.	3.3	32

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37	New paramagnetic supramolecular adducts for MRI applications based on non-covalent interactions between Gd(III)-complexes and β- or γ-cyclodextrin units anchored to chitosan. Journal of Inorganic Biochemistry, 2006, 100, 931-938.	3.5	31
38	Interplay Between Mechanochemistry and Sonochemistry. Topics in Current Chemistry, 2014, 369, 239-284.	4.0	31
39	Stearoyl-Chitosan Coated Nanoparticles Obtained by Microemulsion Cold Dilution Technique. International Journal of Molecular Sciences, 2018, 19, 3833.	4.1	30
40	The nature of the counter-anion can determine the rate of water exchange in a metal aqua complexElectronic supplementary information (ESI) available: representative NMRD profile (298 K) and 17O-NMR analysis for the chloride complex. See http://www.rsc.org/suppdata/cc/b3/b302211k/. Chemical Communications, 2003, , 1386.	4.1	29
41	Improved syntheses of bis(β-cyclodextrin) derivatives, new carriers for gadolinium complexes. Organic and Biomolecular Chemistry, 2006, 4, 1124.	2.8	29
42	N-Acetyl-3-aminopyrazoles block the non-canonical NF-kB cascade by selectively inhibiting NIK. MedChemComm, 2018, 9, 963-968.	3.4	27
43	The unseen evidence of Reduced Ionicity: The elephant in (the) room temperature ionic liquids. Journal of Molecular Liquids, 2021, 324, 115069.	4.9	27
44	Relationship between ligand structure and electrochemical and relaxometric properties of acyclic poly(aminocarboxylate) complexes of Eu(ii)Electronic supplementary information (ESI) available: complete series of the plots reporting the diffusion coefficients D vs. temperature for Eu(iii)aq and [Eu(iii)L] (L = edta, dtpa, bopta, ttha). See http://www.rsc.org/suppdata/dt/b2/b211533f/. Dalton Transactions, 2003, , 1628-1633.	3.3	25
45	Improved adhesion to mucosal cells of water-soluble chitosan tetraalkylammonium salts. International Journal of Pharmaceutics, 2008, 362, 88-92.	5.2	24
46	4-Hydroxy-N-[3,5-bis(trifluoromethyl)phenyl]-1,2,5-thiadiazole-3-carboxamide: a novel inhibitor of the canonical NF-l®B cascade. MedChemComm, 2017, 8, 1850-1855.	3.4	23
47	Novel MRI and fluorescent probes responsive to the Factor XIII transglutaminase activity. Contrast Media and Molecular Imaging, 2010, 5, 213-222.	0.8	22
48	Target Visualization by MRI Using the Avidin/Biotin Amplification Route: Synthesis and Testing of a Biotin–Gdâ€ĐOTA Monoamide Trimer. Chemistry - A European Journal, 2010, 16, 8080-8087.	3.3	22
49	Heterodinuclear LnNa Complexes with an Asymmetric Macrocyclic Compartmental Schiff Base. Chemistry - A European Journal, 2002, 8, 3917-3926.	3.3	21
50	New CD derivatives as self-assembling contrast agents for magnetic resonance imaging (MRI). Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 57, 489-495.	1.6	19
51	Tuning Glutamine Binding Modes in Gdâ€ÐOTAâ€Based Probes for an Improved MRI Visualization of Tumor Cells. Chemistry - A European Journal, 2009, 15, 76-85.	3.3	19
52	Combined Microwaves/Ultrasound, a Hybrid Technology. Topics in Current Chemistry, 2016, 374, 79.	5.8	19
53	Microwave-assisted Maillard reactions for the preparation of advanced glycation end products (AGEs). Organic and Biomolecular Chemistry, 2010, 8, 2473.	2.8	18
54	A novel synthesis of <i>N</i> -hydroxy-3-aroylindoles and 3-aroylindoles. Organic and Biomolecular Chemistry, 2018, 16, 6853-6859.	2.8	18

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55	Solid lipid nanoparticles carrying lipophilic derivatives of doxorubicin: preparation, characterization, and <i>in vitro</i> cytotoxicity studies. Journal of Microencapsulation, 2016, 33, 381-390.	2.8	18
56	A New Access to Homo- and Heterodimers of α-, β-, and γ-Cyclodextrin by a Microwave-Promoted Huisgen Cycloaddition. Synlett, 2008, 2008, 2642-2646.	1.8	17
57	Intensification of organic reactions with hybrid flow reactors. Chemical Engineering and Processing: Process Intensification, 2010, 49, 930-935.	3.6	17
58	Design and Synthesis of a γ ¹ î² ⁸ yclodextrin Oligomer: A New Platform with Potential Application as a Dendrimeric Multicarrier. Chemistry - A European Journal, 2013, 19, 12086-12092.	3.3	17
59	Effects of the Molecular Weight of Hyaluronic Acid in a Carbon Nanotube Drug Delivery Conjugate. Frontiers in Chemistry, 2020, 8, 578008.	3.6	17
60	Selectivity of Asymmetric Macrocyclic Compartmental Lanthanide(III) Complexes towards Alkali and Alkaline-Earth Metal Ions. European Journal of Inorganic Chemistry, 2005, 2005, 1492-1499.	2.0	16
61	Chemical modifications of bile acids under high-intensity ultrasound or microwave irradiation. Steroids, 2005, 70, 77-83.	1.8	16
62	Inhibitory Effect of Umbelliferone Aminoalkyl Derivatives on Oxidosqualene Cyclases fromS.â€cerevisiae,T.â€cruzi,P.â€carinii,H.â€sapiens, andA.â€thaliana: a Structure–Activity Study. C 2007, 2, 226-233.	∶hen sM edC	hen n ø
63	Lipophilic Prodrug of Floxuridine Loaded into Solid Lipid Nanoparticles: <i>In Vitro</i> Cytotoxicity Studies on Different Human Cancer Cell Lines. Journal of Nanoscience and Nanotechnology, 2018, 18, 556-563.	0.9	16
64	Natural origin of ascorbic acid: Validation by 13C NMR and IRMS. Food Chemistry, 2009, 112, 715-720.	8.2	15
65	Synthesis, characterization and cell viability test of six vanadyl complexes with acetylacetonate derivatives. Journal of Inorganic Biochemistry, 2013, 128, 26-37.	3.5	15
66	Microwaveâ€Assisted Synthesis and Physicochemical Characterization of Tetrafuranylporphyrinâ€Grafted Reducedâ€Graphene Oxide. Chemistry - A European Journal, 2016, 22, 1608-1613.	3.3	15
67	NMR studies of BPTI aggregation by using paramagnetic relaxation reagents. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 856-862.	2.3	14
68	1H and 17O NMR relaxometric study in aqueous solution of Gd(III) complexes of EGTA-like derivatives bearing methylenephosphonic groups. Magnetic Resonance in Chemistry, 2008, 46, S86-S93.	1.9	14
69	Regioselective Nâ€Alkylation of Ethyl 4â€Benzyloxyâ€1,2,3â€triazolecarboxylate: A Useful Tool for the Synthesis of Carboxylic Acid Bioisosteres. Journal of Heterocyclic Chemistry, 2019, 56, 501-519.	2.6	14
70	A community-built calibration system: The case study of quantification of metabolites in grape juice by qNMR spectroscopy. Talanta, 2020, 214, 120855.	5.5	14
71	Hetero-dinuclear sodium–lanthanide(iii) complexes with an asymmetric compartmental macrocycle. Chemical Communications, 2000, , 145-146.	4.1	13
72	Detection and Quantification of Lanthanide Complexes in Cell Lysates by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2004, 76, 6012-6016.	6.5	13

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73	Synthesis of 1-octacosanol and GC-C-IRMS discrimination of samples from different origin. Natural Product Research, 2010, 24, 428-439.	1.8	13
74	Microwaveâ€assisted extraction of edible <i>Cicerbita alpina</i> shoots and its <scp>LCâ€MS</scp> phenolic profile. Journal of the Science of Food and Agriculture, 2013, 93, 2676-2682.	3.5	13
75	A novel SWCNT platform bearing DOTA and β-cyclodextrin units. "One shot―multidecoration under microwave irradiation. Organic and Biomolecular Chemistry, 2014, 12, 4708-4715.	2.8	13
76	Multinuclear and multifrequency NMR study of gadolinium(III) complexes with bis-amide derivatives of ethylenedioxydiethylenedinitrilotetraacetic acid. Dalton Transactions RSC, 2000, , 3435-3440.	2.3	12
77	Synthesis of functionalised HP-DO3A chelating agents for conjugation to biomolecules. Organic and Biomolecular Chemistry, 2009, 7, 3810.	2.8	11
78	A Cross-Flow Ultrasound-Assisted Extraction of Curcuminoids from Curcuma longa L.: Process Design to Avoid Degradation. Foods, 2020, 9, 743.	4.3	11
79	Microwave Irradiation in Micro―Mesoâ€Fluidic Systems; Hybrid Technology has Issued the Challenge. Chemical Record, 2019, 19, 98-117.	5.8	10
80	High Relaxivity Contrast Agents for MRI and Molecular Imaging. , 2005, , 99-121.		9
81	Towards improved boron neutron capture therapy agents: evaluation of in vitro cellular uptake of a glutamine-functionalized carborane. Journal of Biological Inorganic Chemistry, 2009, 14, 883-890.	2.6	9
82	Synthesis, characterization and potential application of monoacyl-cyclodextrins. Carbohydrate Research, 2010, 345, 191-198.	2.3	9
83	Optimizing the high-field relaxivity by self-assembling of macrocyclic Gd(<scp>iii</scp>) complexes. Dalton Transactions, 2015, 44, 4910-4917.	3.3	9
84	Synthesis and characterization of porphyrin functionalized nanodiamonds. Diamond and Related Materials, 2019, 91, 22-28.	3.9	9
85	Modulation of the Prototropic Exchange Rate at the Water Molecule Coordinated to a GdIII Ion. European Journal of Inorganic Chemistry, 2003, 2003, 2045-2048.	2.0	8
86	SWCNT–porphyrin nano-hybrids selectively activated by ultrasound: an interesting model for sonodynamic applications. RSC Advances, 2020, 10, 21736-21744.	3.6	8
87	Polyhydroxylated GdDTPA-derivatives as high relaxivity magnetic resonance imaging contrast agents. RSC Advances, 2015, 5, 74734-74743.	3.6	6
88	Solid Lipid Nanoparticles Loaded with Antitumor Lipophilic Prodrugs Aimed to Glioblastoma Treatment: Preliminary Studies on Cultured Cells. Journal of Nanoscience and Nanotechnology, 2017, 17, 3606-3614.	0.9	6
89	Alkaloid Profiles and Activity in Different <i>Mitragyna speciosa</i> Strains. Natural Product Communications, 2018, 13, 1934578X1801300.	0.5	6
90	Highly-Efficient Caffeine Recovery from Green Coffee Beans under Ultrasound-Assisted SC–CO2 Extraction. Processes, 2020, 8, 1062.	2.8	6

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91	Laser-Synthesis of NV-Centers-Enriched Nanodiamonds: Effect of Different Nitrogen Sources. Micromachines, 2020, 11, 579.	2.9	6
92	Exploiting Lipid and Polymer Nanocarriers to Improve the Anticancer Sonodynamic Activity of Chlorophyll. Pharmaceutics, 2020, 12, 605.	4.5	6
93	Visualization through Magnetic Resonance Imaging of DNA Internalized Following "In Vivo― Electroporation. Molecular Imaging, 2005, 4, 153535002005041.	1.4	5
94	Cyclization reactions of coumarin derivatives: Chemo―and regioselectivity effects of oxygen/sulfur isosteric replacement. Journal of Heterocyclic Chemistry, 2007, 44, 411-418.	2.6	5
95	4â€Methylzymosterone and Other Intermediates of Sterol Biosynthesis from Yeast Mutants Engineered in the <i>ERG27</i> Gene Encoding 3â€Ketosteroid Reductase. Lipids, 2016, 51, 1103-1113.	1.7	4
96	Extensive methodology screening of meso-tetrakys-(furan-2-yl)-porphyrin microwave-assisted synthesis. New Journal of Chemistry, 2016, 40, 2574-2581.	2.8	4
97	Mechanochemistry Applied to the Synthesis of X-ray Contrast Agent. ACS Sustainable Chemistry and Engineering, 2020, 8, 12825-12830.	6.7	4
98	Fast multigram scale microwave-assisted synthesis of vitamin E and C10-, C15-analogues under vacuum. RSC Advances, 2016, 6, 63515-63518.	3.6	3
99	EPR and photophysical characterization of six bioactive oxidovanadium(IV) complexes in the conditions of in vitro cell tests. Journal of Inorganic Biochemistry, 2017, 170, 55-62.	3.5	3
100	A New, Practical and Efficient Method for Protecting Alcohols as tert-Butyl Ethers. Synlett, 2010, 2010, 812-816.	1.8	2
101	Paramagnetic Metal Complexes As Contrast Agents for Magnetic Resonance Imaging. , 2005, , 541-560.		1
102	Efficient Regioselective Opening of Epoxides by Nucleophiles in Water under Simultaneous Ultrasound/Microwave Irradiation. Synlett, 2007, 2007, 2041-2044.	1.8	1
103	A New, Easy Access to the 6-Aminoperhydro-1,4-diazepine Scaffold under Ultrasound and Microwave Irradiation. Synthesis, 2008, 2008, 1879-1882.	2.3	1
104	Microwave-Assisted, One-Pot Synthesis of Doxycycline under Heterogeneous Catalysis in Water. Antibiotics, 2021, 10, 1084.	3.7	1
105	Effects of Vanadyl Complexes with Acetylacetonate Derivatives on Non-Tumor and Tumor Cell Lines. Molecules, 2021, 26, 5534.	3.8	1