

Alessandro Barge

List of Publications by Year in descending order

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105
papers

4,135
citations

126907

33
h-index

123424

61
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113
all docs

113
docs citations

113
times ranked

4494
citing authors

#	ARTICLE	IF	CITATIONS
1	The unseen evidence of Reduced Ionicity: The elephant in (the) room temperature ionic liquids. <i>Journal of Molecular Liquids</i> , 2021, 324, 115069.	4.9	27
2	Microwave-Assisted, One-Pot Synthesis of Doxycycline under Heterogeneous Catalysis in Water. <i>Antibiotics</i> , 2021, 10, 1084.	3.7	1
3	Effects of Vanadyl Complexes with Acetylacetonate Derivatives on Non-Tumor and Tumor Cell Lines. <i>Molecules</i> , 2021, 26, 5534.	3.8	1
4	Highly-Efficient Caffeine Recovery from Green Coffee Beans under Ultrasound-Assisted SC-CO ₂ Extraction. <i>Processes</i> , 2020, 8, 1062.	2.8	6
5	Mechanochemistry Applied to the Synthesis of X-ray Contrast Agent. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12825-12830.	6.7	4
6	Effects of the Molecular Weight of Hyaluronic Acid in a Carbon Nanotube Drug Delivery Conjugate. <i>Frontiers in Chemistry</i> , 2020, 8, 578008.	3.6	17
7	SWCNT-porphyrin nano-hybrids selectively activated by ultrasound: an interesting model for sonodynamic applications. <i>RSC Advances</i> , 2020, 10, 21736-21744.	3.6	8
8	Laser-Synthesis of NV-Centers-Enriched Nanodiamonds: Effect of Different Nitrogen Sources. <i>Micromachines</i> , 2020, 11, 579.	2.9	6
9	A Cross-Flow Ultrasound-Assisted Extraction of Curcuminoids from <i>Curcuma longa</i> L.: Process Design to Avoid Degradation. <i>Foods</i> , 2020, 9, 743.	4.3	11
10	Exploiting Lipid and Polymer Nanocarriers to Improve the Anticancer Sonodynamic Activity of Chlorophyll. <i>Pharmaceutics</i> , 2020, 12, 605.	4.5	6
11	A community-built calibration system: The case study of quantification of metabolites in grape juice by qNMR spectroscopy. <i>Talanta</i> , 2020, 214, 120855.	5.5	14
12	Regioselective N-Alkylation of Ethyl 4-benzyloxy-1,2,3-triazolecarboxylate: A Useful Tool for the Synthesis of Carboxylic Acid Bioisosters. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 501-519.	2.6	14
13	Microwave Irradiation in Micro-Meso-Fluidic Systems; Hybrid Technology has Issued the Challenge. <i>Chemical Record</i> , 2019, 19, 98-117.	5.8	10
14	Synthesis and characterization of porphyrin functionalized nanodiamonds. <i>Diamond and Related Materials</i> , 2019, 91, 22-28.	3.9	9
15	N-Acetyl-3-aminopyrazoles block the non-canonical NF- κ B cascade by selectively inhibiting NIK. <i>MedChemComm</i> , 2018, 9, 963-968.	3.4	27
16	Porphyrin-Loaded Pluronic Nanobubbles: A New US-Activated Agent for Future Theranostic Applications. <i>Bioconjugate Chemistry</i> , 2018, 29, 234-240.	3.6	36
17	Alkaloid Profiles and Activity in Different <i>Mitragyna speciosa</i> Strains. <i>Natural Product Communications</i> , 2018, 13, 1934578X1801300.	0.5	6
18	Stearoyl-Chitosan Coated Nanoparticles Obtained by Microemulsion Cold Dilution Technique. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3833.	4.1	30

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19	Lipophilic Prodrug of Floxuridine Loaded into Solid Lipid Nanoparticles: <i>In Vitro</i> Cytotoxicity Studies on Different Human Cancer Cell Lines. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 556-563.	0.9	16
20	A novel synthesis of <i>N</i> -hydroxy-3-aryloindoles and 3-aryloindoles. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 6853-6859.	2.8	18
21	EPR and photophysical characterization of six bioactive oxidovanadium(IV) complexes in the conditions of <i>in vitro</i> cell tests. <i>Journal of Inorganic Biochemistry</i> , 2017, 170, 55-62.	3.5	3
22	Solid Lipid Nanoparticles Loaded with Antitumor Lipophilic Prodrugs Aimed to Glioblastoma Treatment: Preliminary Studies on Cultured Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 3606-3614.	0.9	6
23	4-Hydroxy- <i>N</i> -[3,5-bis(trifluoromethyl)phenyl]-1,2,5-thiadiazole-3-carboxamide: a novel inhibitor of the canonical NF- κ B cascade. <i>MedChemComm</i> , 2017, 8, 1850-1855.	3.4	23
24	Microwave-Assisted Synthesis and Physicochemical Characterization of Tetrafuranylporphyrin-Grafted Reduced Graphene Oxide. <i>Chemistry - A European Journal</i> , 2016, 22, 1608-1613.	3.3	15
25	Fast multigram scale microwave-assisted synthesis of vitamin E and C10-, C15-analogues under vacuum. <i>RSC Advances</i> , 2016, 6, 63515-63518.	3.6	3
26	4-Methylzymosterone and Other Intermediates of Sterol Biosynthesis from Yeast Mutants Engineered in the <i>ERG27</i> Gene Encoding 3-Ketosteroid Reductase. <i>Lipids</i> , 2016, 51, 1103-1113.	1.7	4
27	Combined Microwaves/Ultrasound, a Hybrid Technology. <i>Topics in Current Chemistry</i> , 2016, 374, 79.	5.8	19
28	Extensive methodology screening of meso-tetrakis-(furan-2-yl)-porphyrin microwave-assisted synthesis. <i>New Journal of Chemistry</i> , 2016, 40, 2574-2581.	2.8	4
29	Solid lipid nanoparticles carrying lipophilic derivatives of doxorubicin: preparation, characterization, and <i>in vitro</i> cytotoxicity studies. <i>Journal of Microencapsulation</i> , 2016, 33, 381-390.	2.8	18
30	Optimizing the high-field relaxivity by self-assembling of macrocyclic Gd(III) complexes. <i>Dalton Transactions</i> , 2015, 44, 4910-4917.	3.3	9
31	Polyhydroxylated GdDTPA-derivatives as high relaxivity magnetic resonance imaging contrast agents. <i>RSC Advances</i> , 2015, 5, 74734-74743.	3.6	6
32	Interplay Between Mechanochemistry and Sonochemistry. <i>Topics in Current Chemistry</i> , 2014, 369, 239-284.	4.0	31
33	A novel SWCNT platform bearing DOTA and β -cyclodextrin units. <i>One shot</i> multidecoration under microwave irradiation. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 4708-4715.	2.8	13
34	Design and Synthesis of a β -Cyclodextrin Oligomer: A New Platform with Potential Application as a Dendrimeric Multicarrier. <i>Chemistry - A European Journal</i> , 2013, 19, 12086-12092.	3.3	17
35	Synthesis, characterization and cell viability test of six vanadyl complexes with acetylacetonate derivatives. <i>Journal of Inorganic Biochemistry</i> , 2013, 128, 26-37.	3.5	15
36	A Carborane Derivative <i>Click</i> -Reaction under Heterogeneous Conditions for the Synthesis of a Promising Lipophilic MRI/GdBNCT Agent. <i>Chemistry - A European Journal</i> , 2013, 19, 721-728.	3.3	32

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37	Microwave-assisted extraction of edible <i>Cicerbita alpina</i> shoots and its phenolic profile. <i>Journal of the Science of Food and Agriculture</i> , 2013, 93, 2676-2682.	3.5	13
38	UAE, MAE, SFE-CO ₂ and classical methods for the extraction of <i>Mitragyna speciosa</i> leaves. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 591-595.	8.2	62
39	The synthesis and application of polyamino polycarboxylic bifunctional chelating agents. <i>Chemical Society Reviews</i> , 2011, 40, 3019.	38.1	153
40	Click Chemistry Under Microwave or Ultrasound Irradiation. <i>Current Organic Chemistry</i> , 2011, 15, 189-203.	1.6	36
41	MRI-Guided Neutron Capture Therapy by Use of a Dual Gadolinium/Boron Agent Targeted at Tumour Cells through Upregulated Low-Density Lipoprotein Transporters. <i>Chemistry - A European Journal</i> , 2011, 17, 8479-8486.	3.3	56
42	Microwave-assisted Maillard reactions for the preparation of advanced glycation end products (AGEs). <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 2473.	2.8	18
43	Novel MRI and fluorescent probes responsive to the Factor XIII transglutaminase activity. <i>Contrast Media and Molecular Imaging</i> , 2010, 5, 213-222.	0.8	22
44	Target Visualization by MRI Using the Avidin/Biotin Amplification Route: Synthesis and Testing of a Biotin-Gd-DOTA Monoamide Trimer. <i>Chemistry - A European Journal</i> , 2010, 16, 8080-8087.	3.3	22
45	Intensification of organic reactions with hybrid flow reactors. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010, 49, 930-935.	3.6	17
46	Synthesis, characterization and potential application of monoacyl-cyclodextrins. <i>Carbohydrate Research</i> , 2010, 345, 191-198.	2.3	9
47	Alkyne-azide click reaction catalyzed by metallic copper under ultrasound. <i>Nature Protocols</i> , 2010, 5, 607-616.	12.0	103
48	Synthesis of 1-octacosanol and GC-C-IRMS discrimination of samples from different origin. <i>Natural Product Research</i> , 2010, 24, 428-439.	1.8	13
49	A New, Practical and Efficient Method for Protecting Alcohols as tert-Butyl Ethers. <i>Synlett</i> , 2010, 2010, 812-816.	1.8	2
50	Ultrasound-Promoted Copper-Catalyzed Azide-Alkyne Cycloaddition. <i>ACS Combinatorial Science</i> , 2010, 12, 13-15.	3.3	82
51	Tuning Glutamine Binding Modes in Gd-DOTA-Based Probes for an Improved MRI Visualization of Tumor Cells. <i>Chemistry - A European Journal</i> , 2009, 15, 76-85.	3.3	19
52	Towards improved boron neutron capture therapy agents: evaluation of in vitro cellular uptake of a glutamine-functionalized carborane. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 883-890.	2.6	9
53	Natural origin of ascorbic acid: Validation by ¹³ C NMR and IRMS. <i>Food Chemistry</i> , 2009, 112, 715-720.	8.2	15
54	Fast, Solvent-Free, Microwave-Promoted Friedländer Annulation with a Reusable Solid Catalyst. <i>Synthetic Communications</i> , 2009, 40, 120-128.	2.1	38

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55	New cyclodextrin dimers and trimers capable of forming supramolecular adducts with shape-specific ligands. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 370-379.	2.8	42
56	Synthesis of functionalised HP-DO3A chelating agents for conjugation to biomolecules. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3810.	2.8	11
57	¹ H and ¹⁷ O NMR relaxometric study in aqueous solution of Gd(III) complexes of EGTA-like derivatives bearing methylenephosphonic groups. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, S86-S93.	1.9	14
58	Synthesis of cyclodextrin-based polymers and their use as debittering agents. <i>Journal of Applied Polymer Science</i> , 2008, 107, 2549-2557.	2.6	61
59	Improved adhesion to mucosal cells of water-soluble chitosan tetraalkylammonium salts. <i>International Journal of Pharmaceutics</i> , 2008, 362, 88-92.	5.2	24
60	Bifunctional ligands based on the DOTA-monoamide cage. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 1176.	2.8	49
61	Synthesis of Gd(III)-C-palmitamidomethyl-Ca ²⁺ -DOTAMA-C6-o-carborane: a new dual agent for innovative MRI/BNCT applications. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 4460.	2.8	33
62	Highly shifted LIPOCEST agents based on the encapsulation of neutral polynuclear paramagnetic shift reagents. <i>Chemical Communications</i> , 2008, , 600-602.	4.1	38
63	Pd-catalyzed Reactions Promoted by Ultrasound and/or Microwave Irradiation. <i>Current Organic Chemistry</i> , 2008, 12, 1588-1612.	1.6	39
64	A New Access to Homo- and Heterodimers of ¹ ±-, ¹ 2-, and ¹ 3-Cyclodextrin by a Microwave-Promoted Huisgen Cycloaddition. <i>Synlett</i> , 2008, 2008, 2642-2646.	1.8	17
65	A New, Easy Access to the 6-Aminoperhydro-1,4-diazepine Scaffold under Ultrasound and Microwave Irradiation. <i>Synthesis</i> , 2008, 2008, 1879-1882.	2.3	1
66	Efficient Regioselective Opening of Epoxides by Nucleophiles in Water under Simultaneous Ultrasound/Microwave Irradiation. <i>Synlett</i> , 2007, 2007, 2041-2044.	1.8	1
67	Heck Reactions with Very Low Ligandless Catalyst Loads Accelerated by Microwaves or Simultaneous Microwaves/Ultrasound Irradiation. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 2338-2344.	4.3	57
68	Inhibitory Effect of Umbelliferone Aminoalkyl Derivatives on Oxidosqualene Cyclases from <i>S. cerevisiae</i> , <i>T. cruzi</i> , <i>P. carinii</i> , <i>H. sapiens</i> , and <i>A. thaliana</i> : a Structure-Activity Study. <i>ChemMedChem</i> , 2007, 2, 226-233.	3.1	6
69	Cyclization reactions of coumarin derivatives: Chemo- and regioselectivity effects of oxygen/sulfur isosteric replacement. <i>Journal of Heterocyclic Chemistry</i> , 2007, 44, 411-418.	2.6	5
70	Efficient, solventless N-Boc protection of amines carried out at room temperature using sulfamic acid as recyclable catalyst. <i>Tetrahedron Letters</i> , 2007, 48, 8318-8322.	1.4	81
71	Recent advances in the synthesis of cyclodextrin derivatives under microwaves and power ultrasound. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2007, 57, 3-7.	1.6	36
72	New CD derivatives as self-assembling contrast agents for magnetic resonance imaging (MRI). <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2007, 57, 489-495.	1.6	19

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73	Improved syntheses of bis(β -cyclodextrin) derivatives, new carriers for gadolinium complexes. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 1124.	2.8	29
74	In Vitro and in Vivo Magnetic Resonance Detection of Tumor Cells by Targeting Glutamine Transporters with Gd-Based Probes. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 4926-4936.	6.4	69
75	NMR studies of BPTI aggregation by using paramagnetic relaxation reagents. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 856-862.	2.3	14
76	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. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 931-938.	3.5	31
77	How to determine free Gd and free ligand in solution of Gd chelates. A technical note. <i>Contrast Media and Molecular Imaging</i> , 2006, 1, 184-188.	0.8	249
78	Cellular labeling with Gd(III) chelates: only high thermodynamic stabilities prevent the cells acting as Gd^{3+} sponges. <i>Contrast Media and Molecular Imaging</i> , 2006, 1, 23-29.	0.8	89
79	Paramagnetic Metal Complexes As Contrast Agents for Magnetic Resonance Imaging. , 2005, , 541-560.		1
80	Selectivity of Asymmetric Macrocyclic Compartmental Lanthanide(III) Complexes towards Alkali and Alkaline-Earth Metal Ions. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 1492-1499.	2.0	16
81	Magnetic resonance imaging visualization of targeted cells by the internalization of supramolecular adducts formed between avidin and biotinylated Gd ³⁺ chelates. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 78-86.	2.6	32
82	Visualization through Magnetic Resonance Imaging of DNA Internalized Following <i>In Vivo</i> Electroporation. <i>Molecular Imaging</i> , 2005, 4, 153535002005041.	1.4	5
83	High Relaxivity Contrast Agents for MRI and Molecular Imaging. , 2005, , 99-121.		9
84	Chemical modifications of bile acids under high-intensity ultrasound or microwave irradiation. <i>Steroids</i> , 2005, 70, 77-83.	1.8	16
85	Detection and Quantification of Lanthanide Complexes in Cell Lysates by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2004, 76, 6012-6016.	6.5	13
86	Targeting Cells with MR Imaging Probes Based on Paramagnetic Gd(III) Chelates. <i>Current Pharmaceutical Biotechnology</i> , 2004, 5, 509-518.	1.6	97
87	Modulation of the Prototropic Exchange Rate at the Water Molecule Coordinated to a Gd(III) Ion. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 2045-2048.	2.0	8
88	Ternary Complexes between Cationic Gd(III) Chelates and Anionic Metabolites in Aqueous Solution: An NMR Relaxometric Study. <i>Chemistry - A European Journal</i> , 2003, 9, 2102-2109.	3.3	87
89	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/ . <i>Dalton Transactions</i> , 2003, 1620-1622.	3.3	25
90	The nature of the counter-anion can determine the rate of water exchange in a metal aqua complex Electronic 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/ . <i>Chemical Communications</i> , 2003, , 1386.	4.1	29

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91	Controlling the variation of axial water exchange rates in macrocyclic lanthanide(III) complexes. Electronic supplementary information (ESI) available: experimental section. See http://www.rsc.org/suppdata/cc/b2/b202862j/ . <i>Chemical Communications</i> , 2002, , 1120-1121.	4.1	69
92	Heterodinuclear Ln ^{III} /Na Complexes with an Asymmetric Macrocyclic Compartmental Schiff Base. <i>Chemistry - A European Journal</i> , 2002, 8, 3917-3926.	3.3	21
93	Paramagnetic Lanthanide(III) complexes as pH-sensitive chemical exchange saturation transfer (CEST) contrast agents for MRI applications. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 639-648.	3.0	365
94	Optimization of the Relaxivity of MRI Contrast Agents: Effect of Poly(ethylene glycol) Chains on the Water-Exchange Rates of Gd(III) Complexes. <i>Journal of the American Chemical Society</i> , 2001, 123, 10758-10759.	13.7	87
95	A Calix[4]arene Gd(III) Complex Endowed with High Stability, Relaxivity, and Binding Affinity to Serum Albumin. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4737-4739.	13.8	41
96	Hetero-dinuclear sodium lanthanide(III) complexes with an asymmetric compartmental macrocycle. <i>Chemical Communications</i> , 2000, , 145-146.	4.1	13
97	Multinuclear and multifrequency NMR study of gadolinium(III) complexes with bis-amide derivatives of ethylenedioxydiethylenedinitrilotetraacetic acid. <i>Dalton Transactions RSC</i> , 2000, , 3435-3440.	2.3	12
98	Syntheses and Relaxation Properties of Mixed Gadolinium Hydroxypyridinonate MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2000, 39, 5747-5756.	4.0	95
99	NMR, Relaxometric, and Structural Studies of the Hydration and Exchange Dynamics of Cationic Lanthanide Complexes of Macrocyclic Tetraamide Ligands. <i>Journal of the American Chemical Society</i> , 1999, 121, 5762-5771.	13.7	267
100	Dependence of the relaxivity and luminescence of gadolinium and europium amino-acid complexes on hydrogencarbonate and pH. <i>Chemical Communications</i> , 1999, , 1047-1048.	4.1	71
101	Direct NMR Spectroscopic Observation of a Lanthanide Coordinated Water Molecule whose Exchange Rate Is Dependent on the Conformation of the Complexes. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2673-2675.	13.8	133
102	A Multinuclear NMR Study on the Structure and Dynamics of Lanthanide(III) Complexes of the Poly(amino carboxylate) EGTA ⁴⁻ in Aqueous Solution. <i>Inorganic Chemistry</i> , 1997, 36, 5104-5112.	4.0	74
103	A Novel Compound in the Lanthanide(III) DOTA Series. X-ray Crystal and Molecular Structure of the Complex Na[La(DOTA)La(HDOTA)]·10H ₂ O. <i>Inorganic Chemistry</i> , 1997, 36, 4287-4289.	4.0	87
104	Prototropic vs Whole Water Exchange Contributions to the Solvent Relaxation Enhancement in the Aqueous Solution of a Cationic Gd ³⁺ -Macrocyclic Complex. <i>Journal of the American Chemical Society</i> , 1997, 119, 4767-4768.	13.7	108
105	Crystal structure and solution dynamics of the lutetium(III) chelate of DOTA. <i>Inorganica Chimica Acta</i> , 1996, 246, 423-429.	2.4	141