

Raluca Maria Fratila

List of Publications by Year in descending order

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48
papers

1,506
citations

304743

22
h-index

315739

38
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54
all docs

54
docs citations

54
times ranked

2665
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Surface Chemistry and Associated Protein Corona on the Long-Term Biodegradation of Iron Oxide Nanoparticles In Vivo. ACS Applied Materials & Interfaces, 2018, 10, 4548-4560.	8.0	123
2	Triazolium cations: from the "click" pool to multipurpose applications. New Journal of Chemistry, 2014, 38, 474-480.	2.8	119
3	Triggering antitumoural drug release and gene expression by magnetic hyperthermia. Advanced Drug Delivery Reviews, 2019, 138, 326-343.	13.7	92
4	Shape matters: synthesis and biomedical applications of high aspect ratio magnetic nanomaterials. Nanoscale, 2015, 7, 8233-8260.	5.6	90
5	Small-Volume Nuclear Magnetic Resonance Spectroscopy. Annual Review of Analytical Chemistry, 2011, 4, 227-249.	5.4	88
6	Strategies for the Biofunctionalization of Gold and Iron Oxide Nanoparticles. Langmuir, 2014, 30, 15057-15071.	3.5	70
7	Multivalent Nanoparticle Networks as Ultrasensitive Enzyme Sensors. Angewandte Chemie - International Edition, 2011, 50, 5704-5707.	13.8	68
8	Evaluation of superparamagnetic iron oxide nanoparticles (Endorem [®]) as a photoacoustic contrast agent for intraoperative nodal staging. Contrast Media and Molecular Imaging, 2013, 8, 83-91.	0.8	63
9	Development of a New Family of Conformationally Restricted Peptides as Potent Nucleators of β -Turns. Design, Synthesis, Structure, and Biological Evaluation of a β -Lactam Peptide Analogue of Melanostatin. Journal of the American Chemical Society, 2003, 125, 16243-16260.	13.7	54
10	Multinuclear nanoliter one-dimensional and two-dimensional NMR spectroscopy with a single non-resonant microcoil. Nature Communications, 2014, 5, 3025.	12.8	53
11	RGD-Functionalized Fe ₃ O ₄ nanoparticles for magnetic hyperthermia. Colloids and Surfaces B: Biointerfaces, 2018, 165, 315-324.	5.0	49
12	Synthesis of β -Lactam Scaffolds for Dipeptidomimetics. Organic Letters, 2007, 9, 101-104.	4.6	48
13	"Click"-Synthesis of Nonsymmetrical Bis(1,2,3-triazoles). Organic Letters, 2010, 12, 1584-1587.	4.6	45
14	Bias induced transition from an ohmic to a non-ohmic interface in supramolecular tunneling junctions with Ga ₂ O ₃ /EGaIn top electrodes. Nanoscale, 2014, 6, 11246-11258.	5.6	41
15	Dual Role of Magnetic Nanoparticles as Intracellular Hotspots and Extracellular Matrix Disruptors Triggered by Magnetic Hyperthermia in 3D Cell Culture Models. ACS Applied Materials & Interfaces, 2018, 10, 44301-44313.	8.0	40
16	The Intracellular Number of Magnetic Nanoparticles Modulates the Apoptotic Death Pathway after Magnetic Hyperthermia Treatment. ACS Applied Materials & Interfaces, 2020, 12, 43474-43487.	8.0	36
17	Critical Parameters to Improve Pancreatic Cancer Treatment Using Magnetic Hyperthermia: Field Conditions, Immune Response, and Particle Biodistribution. ACS Applied Materials & Interfaces, 2021, 13, 12982-12996.	8.0	34
18	Introducing Axial Chirality into Mesoionic 4,4'-Bis(1,2,3-triazole) Dicarbenes. Organic Letters, 2012, 14, 1866-1868.	4.6	29

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19	Synthesis of Type II β -Turn Surrogate Dipeptides Based on syn- β -Amino- β , β -dialkyl- β -lactams. <i>Organic Letters</i> , 2004, 6, 4443-4446.	4.6	26
20	Determination of Kinetic Parameters within a Single Nonisothermal On-Flow Experiment by Nanoliter NMR Spectroscopy. <i>Analytical Chemistry</i> , 2015, 87, 10547-10555.	6.5	25
21	Nanoparticles and bioorthogonal chemistry joining forces for improved biomedical applications. <i>Nanoscale Advances</i> , 2021, 3, 1261-1292.	4.6	24
22	Mechanistic Insights on the Magnesium(II) Ion-Activated Reduction of Methyl Benzoylformate with Chelated NADH Peptide β -Lactam Models. <i>Journal of Organic Chemistry</i> , 2009, 74, 6691-6702.	3.2	22
23	Intraoperative <i>in vivo</i> photoacoustic nodal staging in a rat model using a clinical superparamagnetic iron oxide nanoparticle dispersion. <i>Journal of Biophotonics</i> , 2013, 6, 493-504.	2.3	22
24	Recent advances in biosensing using magnetic glyconanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1783-1803.	3.7	21
25	Extracellular Biosynthesis of Silver Nanoparticles Using Fungi and Their Antibacterial Activity. <i>Nano Biomedicine and Engineering</i> , 2018, 10, .	0.9	20
26	Reactivity of 2-formylphenylboronic acid toward secondary aromatic amines in amination-reduction reactions. <i>Tetrahedron Letters</i> , 2011, 52, 6639-6642.	1.4	19
27	Cyclic RGD β -lactam Peptidomimetics Induce Differential Gene Expression in Human Endothelial Cells. <i>ChemBioChem</i> , 2011, 12, 401-405.	2.6	17
28	Magnetogenetics: remote activation of cellular functions triggered by magnetic switches. <i>Nanoscale</i> , 2022, 14, 2091-2118.	5.6	17
29	Highly sensitive ratiometric quantification of cyanide in water with gold nanoparticles via Resonance Rayleigh Scattering. <i>Talanta</i> , 2017, 167, 51-58.	5.5	16
30	Quantification of Lipoprotein Uptake <i>in Vivo</i> Using Magnetic Particle Imaging and Spectroscopy. <i>ACS Nano</i> , 2021, 15, 434-446.	14.6	16
31	Click™ Synthesis of Nonsymmetrical 4,4'-Bis(1,2,3-triazolium) Salts. <i>Synthesis</i> , 2011, 2011, 2737-2742.	2.3	15
32	Covalent immobilisation of magnetic nanoparticles on surfaces via strain-promoted azide-alkyne click chemistry. <i>New Journal of Chemistry</i> , 2017, 41, 10835-10840.	2.8	13
33	Plasma-Click-Based Strategy for Obtaining Antibacterial Surfaces on Implants. <i>Plasma Processes and Polymers</i> , 2013, 10, 328-335.	3.0	11
34	Fate and transformation of silver nanoparticles in different biological conditions. <i>Beilstein Journal of Nanotechnology</i> , 2021, 12, 665-679.	2.8	11
35	Stereomodulating effect of remote groups on the NADH-mimetic reduction of alkyl aroylformates with 1,4-dihydronicotinamide β -lactam amides. <i>Tetrahedron</i> , 2010, 66, 3187-3194.	1.9	10
36	Plasma Polymerized Silylated Ciprofloxacin as an Antibiotic Coating. <i>Plasma Processes and Polymers</i> , 2011, 8, 599-606.	3.0	9

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37	Functionalization of N-[(Silyl)methyl]- β -lactam Carbanions with Carbon Electrophiles. <i>Journal of Organic Chemistry</i> , 2006, 71, 6368-6373.	3.2	8
38	An Open Source Image Processing Method to Quantitatively Assess Tissue Growth after Non-Invasive Magnetic Resonance Imaging in Human Bone Marrow Stromal Cell Seeded 3D Polymeric Scaffolds. <i>PLoS ONE</i> , 2014, 9, e115000.	2.5	6
39	Iron Speciation in Animal Tissues Using AC Magnetic Susceptibility Measurements: Quantification of Magnetic Nanoparticles, Ferritin, and Other Iron-Containing Species. <i>ACS Applied Bio Materials</i> , 2022, 5, 1879-1889.	4.6	6
40	Modulating Lectin Inhibition with N-Glycosylated 1,2,3-triazole Scaffolds. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 2434-2444.	2.4	4
41	Introduction to Hyperthermia. , 2019, , 1-10.		4
42	Altering model cell membranes by means of localized magnetic heating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111315.	5.0	2
43	Photoacoustic staging of nodal metastases using SPIOs: Comparison between in vivo, in toto and ex vivo imaging in a rat model. <i>Biomedical Spectroscopy and Imaging</i> , 2017, 5, 71-87.	1.2	1
44	Ex Vivo Magnetic Sentinel Lymph Node Detection in Colorectal Cancer with a SPIO Tracer. <i>Springer Proceedings in Physics</i> , 2012, , 181-185.	0.2	1
45	Magnetic Nanoparticles for Cancer Treatment Using Magnetic Hyperthermia. , 2018, , 305-318.		1
46	Photoacoustic detection of iron oxide nanoparticles in resected rat lymph nodes. , 2012, , .		0
47	Photoacoustic intra-operative nodal staging using clinically approved superparamagnetic iron oxide nanoparticles. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
48	Nanomaterials for Combined Thermo-Chemotherapy of Cancer. , 2019, , 287-314.		0