

# 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  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2665  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetogenetics: remote activation of cellular functions triggered by magnetic switches. <i>Nanoscale</i> , 2022, 14, 2091-2118.	5.6	17
2	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
3	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
4	Critical Parameters to Improve Pancreatic Cancer Treatment Using Magnetic Hyperthermia: Field Conditions, Immune Response, and Particle Biodistribution. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 12982-12996.	8.0	34
5	Fate and transformation of silver nanoparticles in different biological conditions. <i>Beilstein Journal of Nanotechnology</i> , 2021, 12, 665-679.	2.8	11
6	Nanoparticles and bioorthogonal chemistry joining forces for improved biomedical applications. <i>Nanoscale Advances</i> , 2021, 3, 1261-1292.	4.6	24
7	Altering model cell membranes by means of localized magnetic heating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111315.	5.0	2
8	The Intracellular Number of Magnetic Nanoparticles Modulates the Apoptotic Death Pathway after Magnetic Hyperthermia Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 43474-43487.	8.0	36
9	Nanomaterials for Combined Thermo-Chemotherapy of Cancer. , 2019, , 287-314.		0
10	Introduction to Hyperthermia. , 2019, , 1-10.		4
11	Triggering antitumoural drug release and gene expression by magnetic hyperthermia. <i>Advanced Drug Delivery Reviews</i> , 2019, 138, 326-343.	13.7	92
12	RGD-Functionalized Fe <sub>3</sub> O <sub>4</sub> nanoparticles for magnetic hyperthermia. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 165, 315-324.	5.0	49
13	Effect of Surface Chemistry and Associated Protein Corona on the Long-Term Biodegradation of Iron Oxide Nanoparticles <i>In Vivo</i> . <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 4548-4560.	8.0	123
14	Dual Role of Magnetic Nanoparticles as Intracellular Hotspots and Extracellular Matrix Disruptors Triggered by Magnetic Hyperthermia in 3D Cell Culture Models. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 44301-44313.	8.0	40
15	Extracellular Biosynthesis of Silver Nanoparticles Using Fungi and Their Antibacterial Activity. <i>Nano Biomedicine and Engineering</i> , 2018, 10, .	0.9	20
16	Magnetic Nanoparticles for Cancer Treatment Using Magnetic Hyperthermia. , 2018, , 305-318.		1
17	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
18	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

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19	Photoacoustic staging of nodal metastases using SPIOs: Comparison between in vivo, inÂtoto and ex vivo imaging in a rat model. Biomedical Spectroscopy and Imaging, 2017, 5, 71-87.	1.2	1
20	Recent advances in biosensing using magnetic glyconanoparticles. Analytical and Bioanalytical Chemistry, 2016, 408, 1783-1803.	3.7	21
21	Shape matters: synthesis and biomedical applications of high aspect ratio magnetic nanomaterials. Nanoscale, 2015, 7, 8233-8260.	5.6	90
22	Determination of Kinetic Parameters within a Single Nonisothermal On-Flow Experiment by Nanoliter NMR Spectroscopy. Analytical Chemistry, 2015, 87, 10547-10555.	6.5	25
23	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. PLoS ONE, 2014, 9, e115000.	2.5	6
24	Triazolium cations: from the â€œclickâ€™-pool to multipurpose applications. New Journal of Chemistry, 2014, 38, 474-480.	2.8	119
25	Multinuclear nanoliter one-dimensional and two-dimensional NMR spectroscopy with a single non-resonant microcoil. Nature Communications, 2014, 5, 3025.	12.8	53
26	Bias induced transition from an ohmic to a non-ohmic interface in supramolecular tunneling junctions with Ga<sub>2</sub>O<sub>3</sub>/EGaIn top electrodes. Nanoscale, 2014, 6, 11246-11258.	5.6	41
27	Strategies for the Biofunctionalization of Gold and Iron Oxide Nanoparticles. Langmuir, 2014, 30, 15057-15071.	3.5	70
28	Photoacoustic intra-operative nodal staging using clinically approved superparamagnetic iron oxide nanoparticles. Proceedings of SPIE, 2013, , .	0.8	0
29	â€œPlasmaâ€™-Clickâ€™-Based Strategy for Obtaining Antibacterial Surfaces on Implants. Plasma Processes and Polymers, 2013, 10, 328-335.	3.0	11
30	Evaluation of superparamagnetic iron oxide nanoparticles (EndoremÂ®) as a photoacoustic contrast agent for intraâ€™operative nodal staging. Contrast Media and Molecular Imaging, 2013, 8, 83-91.	0.8	63
31	Modulating Lectin Inhibition with <i>N</i>-Glycosylâ€™1,2,3â€™-triazole Scaffolds. European Journal of Organic Chemistry, 2013, 2013, 2434-2444.	2.4	4
32	Intraâ€™operative <i>ex vivo</i> photoacoustic nodal staging in a rat model using a clinical superparamagnetic iron oxide nanoparticle dispersion. Journal of Biophotonics, 2013, 6, 493-504.	2.3	22
33	Photoacoustic detection of iron oxide nanoparticles in resected rat lymph nodes. , 2012, , .		0
34	Introducing Axial Chirality into Mesoionic 4,4â€™-Bis(1,2,3-triazole) Dicarbenes. Organic Letters, 2012, 14, 1866-1868.	4.6	29
35	Ex Vivo Magnetic Sentinel Lymph Node Detection in Colorectal Cancer with a SPIO Tracer. Springer Proceedings in Physics, 2012, , 181-185.	0.2	1
36	Small-Volume Nuclear Magnetic Resonance Spectroscopy. Annual Review of Analytical Chemistry, 2011, 4, 227-249.	5.4	88

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37	Reactivity of 2-formylphenylboronic acid toward secondary aromatic amines in amination–reduction reactions. <i>Tetrahedron Letters</i> , 2011, 52, 6639-6642.	1.4	19
38	Plasma Polymerized Silylated Ciprofloxacin as an Antibiotic Coating. <i>Plasma Processes and Polymers</i> , 2011, 8, 599-606.	3.0	9
39	Multivalent Nanoparticle Networks as Ultrasensitive Enzyme Sensors. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5704-5707.	13.8	68
40	Cyclic RGD $\beta$ -Lactam Peptidomimetics Induce Differential Gene Expression in Human Endothelial Cells. <i>ChemBioChem</i> , 2011, 12, 401-405.	2.6	17
41	Click™ Synthesis of Nonsymmetrical 4,4'-Bis(1,2,3-triazolium) Salts. <i>Synthesis</i> , 2011, 2011, 2737-2742.	2.3	15
42	Stereomodulating effect of remote groups on the NADH-mimetic reduction of alkyl arylformates with 1,4-dihydronicotinamide- $\beta$ -lactam amides. <i>Tetrahedron</i> , 2010, 66, 3187-3194.	1.9	10
43	Click-Synthesis of Nonsymmetrical Bis(1,2,3-triazoles). <i>Organic Letters</i> , 2010, 12, 1584-1587.	4.6	45
44	Mechanistic Insights on the Magnesium(II) Ion-Activated Reduction of Methyl Benzoylformate with Chelated NADH Peptide $\beta$ -Lactam Models. <i>Journal of Organic Chemistry</i> , 2009, 74, 6691-6702.	3.2	22
45	Synthesis of $\beta$ -Lactam Scaffolds for Ditopic Peptidomimetics. <i>Organic Letters</i> , 2007, 9, 101-104.	4.6	48
46	Functionalization of N-[(Silyl)methyl]- $\beta$ -lactam Carbanions with Carbon Electrophiles. <i>Journal of Organic Chemistry</i> , 2006, 71, 6368-6373.	3.2	8
47	Synthesis of Type II $\beta$ -Turn Surrogate Dipeptides Based on syn- $\beta$ -Amino- $\beta$ , $\beta$ -dialkyl- $\beta$ -lactams. <i>Organic Letters</i> , 2004, 6, 4443-4446.	4.6	26
48	Development of a New Family of Conformationally Restricted Peptides as Potent Nucleators of $\beta$ -Turns. Design, Synthesis, Structure, and Biological Evaluation of a $\beta$ -Lactam Peptide Analogue of Melanostatin. <i>Journal of the American Chemical Society</i> , 2003, 125, 16243-16260.	13.7	54