

# Lucia Calucci

## List of Publications by Year in descending order

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102  
papers

1,909  
citations

257450

24  
h-index

302126

39  
g-index

103  
all docs

103  
docs citations

103  
times ranked

2746  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of $\hat{1}^3$ -Irradiation on the Free Radical and Antioxidant Contents in Nine Aromatic Herbs and Spices. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 927-934.	5.2	173
2	Phytic acid prevents oxidative stress in seeds: evidence from a maize ( <i>Zea mays</i> L.) low phytic acid mutant. <i>Journal of Experimental Botany</i> , 2009, 60, 967-978.	4.8	122
3	Influence of Amide versus Ester Linkages on the Properties of Eight-Armed PEG-PLA Star Block Copolymer Hydrogels. <i>Biomacromolecules</i> , 2010, 11, 224-232.	5.4	81
4	Active Targeting of Sorafenib: Preparation, Characterization, and In Vitro Testing of Drug-Loaded Magnetic Solid Lipid Nanoparticles. <i>Advanced Healthcare Materials</i> , 2015, 4, 1681-1690.	7.6	81
5	Structural characterization of magnesium silicate hydrate: towards the design of eco-sustainable cements. <i>Dalton Transactions</i> , 2016, 45, 3294-3304.	3.3	74
6	Intermediate free radicals in the oxidation of wastewaters. <i>Research on Chemical Intermediates</i> , 2002, 28, 247-256.	2.7	51
7	Stereocomplexed 8-armed poly(ethylene glycol)-poly(lactide) star block copolymer hydrogels: Gelation mechanism, mechanical properties and degradation behavior. <i>Polymer</i> , 2012, 53, 2809-2817.	3.8	51
8	Front-Surface Absorbance Spectra of Wheat Flour: Determination of Carotenoids. <i>Journal of Agricultural and Food Chemistry</i> , 2000, 48, 2216-2221.	5.2	48
9	Antioxidants, Free Radicals, Storage Proteins, and Proteolytic Activities in Wheat ( <i>Triticum durum</i> ) Seeds during Accelerated Aging. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 5450-5457.	5.2	47
10	Antioxidants, Free Radicals, Storage Proteins, Puroindolines, and Proteolytic Activities in Bread Wheat ( <i>Triticum aestivum</i> ) Seeds during Accelerated Aging. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 4274-4281.	5.2	42
11	Noncovalent Functionalization of 2D Black Phosphorus with Fluorescent Boronic Derivatives of Pyrene for Probing and Modulating the Interaction with Molecular Oxygen. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22637-22647.	8.0	42
12	Solid-State Nuclear Magnetic Resonance Characterization of Chars Obtained from Hydrothermal Carbonization of Corncob and Miscanthus. <i>Energy &amp; Fuels</i> , 2013, 27, 303-309.	5.1	41
13	$^{13}\text{C}$ and $^1\text{H}$ solid state NMR investigation of hydration effects on gluten dynamics. <i>International Journal of Biological Macromolecules</i> , 2003, 32, 179-189.	7.5	38
14	1,10-Phenanthroline-5,6-dione complexes of middle transition elements: Mono- and dinuclear derivatives. <i>Inorganica Chimica Acta</i> , 2008, 361, 2375-2384.	2.4	37
15	Boron nitride nanotubes for boron neutron capture therapy as contrast agents in magnetic resonance imaging at 3T. <i>Applied Radiation and Isotopes</i> , 2011, 69, 1725-1727.	1.5	34
16	Structure and Dynamics of Flour by Solid State NMR: Effects of Hydration and Wheat Aging. <i>Biomacromolecules</i> , 2004, 5, 1536-1544.	5.4	33
17	Alterations of wheat root plasma membrane lipid composition induced by copper stress result in changed physicochemical properties of plasma membrane lipid vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1564, 466-472.	2.6	30
18	Direct Fluorometric Determination of Fluorescent Substances in Powders: The Case of Riboflavin in Cereal Flours. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 2888-2895.	5.2	29

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19	Self-Aggregation of Gel Forming PEG-PLA Star Block Copolymers in Water. <i>Langmuir</i> , 2010, 26, 12890-12896.	3.5	28
20	Transition metal derivatives of 1,10-phenanthroline-5,6-dione: Controlled growth of coordination polynuclear derivatives. <i>Inorganica Chimica Acta</i> , 2006, 359, 3911-3920.	2.4	27
21	Boron Nitride Nanotubes as $T_2$ -Weighted MRI Contrast Agents. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2561-2565.	4.6	27
22	Degradation of Gluten by Proteases from Dry and Germinating Wheat ( <i>Triticum durum</i> ) Seeds: An in Vitro Approach to Storage Protein Mobilization. <i>Journal of Agricultural and Food Chemistry</i> , 2000, 48, 6271-6279.	5.2	26
23	CAGE: A Software for a Critical Analysis of $^2H$ Spin Lattice Relaxation in Liquid Crystals. <i>Journal of Chemical Information and Computer Sciences</i> , 2001, 41, 1006-1014.	2.8	26
24	Effects of pyrolysis conditions on <i>Miscanthus</i> and corncob chars: Characterization by IR, solid state NMR and BPCA analysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 128, 335-345.	5.5	25
25	Hydration of MgO/SiO <sub>2</sub> and Portland cement mixtures: A structural investigation of the hydrated phases by means of X-ray diffraction and solid state NMR spectroscopy. <i>Cement and Concrete Research</i> , 2017, 102, 60-67.	11.0	24
26	Proton longitudinal relaxation coupling in dynamically heterogeneous soft systems. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2009, 55, 296-323.	7.5	22
27	Effect of phosphate additives on the hydration process of magnesium silicate cements. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3311-3321.	3.6	22
28	Phosphorene and Black Phosphorus: The $^{31}P$ NMR View. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5122-5127.	4.6	21
29	Synthesis and characterization of chromium(II) bis( <i>i</i> -6-toluene) derivatives containing sterically demanding anions. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 829-836.	1.8	20
30	Oriental Order of Fluorinated Mesogens Containing the 1,3,2-Dioxaborinane Ring: A Multidisciplinary Approach. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15783-15794.	2.6	20
31	Water/Polymer Interactions in a Poly(amidoamine) Hydrogel Studied by NMR Spectroscopy. <i>Biomacromolecules</i> , 2007, 8, 2936-2942.	5.4	19
32	Self-Assembly and Photo-Cross-Linking of Eight-Armed PEG-PTMC Star Block Copolymers. <i>Biomacromolecules</i> , 2011, 12, 2746-2754.	5.4	19
33	Monitoring the hydration of MgO-based cement and its mixtures with Portland cement by $^1H$ NMR relaxometry. <i>Microporous and Mesoporous Materials</i> , 2018, 269, 26-30.	4.4	19
34	Characterization of an amylose-graft-poly( <i>n</i> -butyl methacrylate) copolymer obtained by click chemistry by EPR and SS-NMR spectroscopies. <i>Carbohydrate Polymers</i> , 2014, 112, 245-254.	10.2	18
35	Traditional Portland cement and MgO-based cement: a promising combination?. <i>Physics and Chemistry of the Earth</i> , 2017, 99, 158-167.	2.9	18
36	Antifungal activity of azole compounds CPA18 and CPA109 against azole-susceptible and -resistant strains of <i>Candida albicans</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2013, 68, 1111-1119.	3.0	17

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37	Paramagnetic Relaxation Enhancement in Hydrophilic Colloids Based on Gd(III) Complexes with Tetrathia- and Calix[4]arenes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4320-4329.	3.1	17
38	Interaction of cisplatin and two potential antitumoral platinum( $\text{Pt}(\text{II})$ ) complexes with a model lipid membrane: a combined NMR and MD study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1458-1468.	2.8	16
39	Interlayer Coordination of Pd $\text{Cl}_2$ Pd Units in Exfoliated Black Phosphorus. <i>Journal of the American Chemical Society</i> , 2021, 143, 10088-10098.	13.7	16
40	Kinetically stable metal ligand charge transfer complexes as crosslinks in nanogels/hydrogels: Physical properties and cytotoxicity. <i>Acta Biomaterialia</i> , 2015, 26, 136-144.	8.3	15
41	Synthesis of chromium(0) and molybdenum(0) bis( $\eta^6$ -arene) derivatives and their monoelectronic oxidation to $[\text{M}(\eta^6\text{-arene})_2]^+$ cations. <i>Dalton Transactions</i> , 2006, , 4228-4234.	3.3	14
42	Water/polymer interactions in poly(amidoamine) hydrogels by $^1\text{H}$ nuclear magnetic resonance relaxation and magnetization transfer. <i>Journal of Chemical Physics</i> , 2008, 129, 064511.	3.0	14
43	Rubber-Filler Interactions in Polyisoprene Filled with In Situ Generated Silica: A Solid State NMR Study. <i>Polymers</i> , 2018, 10, 822.	4.5	14
44	Gd-doped BNNTs as $T_2$ -weighted MRI contrast agents. <i>Nanotechnology</i> , 2013, 24, 315101.	2.6	13
45	Conformational dynamics of a metallomesogen studied by $^2\text{H}$ NMR spectroscopy. <i>Physical Review E</i> , 2000, 61, 1559-1566.	2.1	11
46	Copper Excess Reduces the Fluidity of Plasma Membrane Lipids of Wheat Roots: a Spin Probe EPR Study. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12021-12028.	2.6	11
47	Ordering of liquid crystals by combining $\text{C}_6\text{H}_6$ and $\text{C}_6\text{D}_6$ . <i>Journal of Physical Chemistry B</i> , 2003, 107, 12021-12028.	2.1	11
48	Solid-State NMR Study of Stereocomplexes Formed by Enantiomeric Star-Shaped PEG-PLA Copolymers in Water. <i>Macromolecules</i> , 2011, 44, 7288-7295.	4.8	11
49	Effects of azole treatments on the physical properties of <i>Candida albicans</i> plasma membrane: A spin probe EPR study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 465-473.	2.6	11
50	The Thermo-Oxidative Behavior of Cotton Coated with an Intumescent Flame Retardant Glycine-Derived Polyamidoamine: A Multi-Technique Study. <i>Polymers</i> , 2021, 13, 4382.	4.5	11
51	$^2\text{H}$ NMR Study of the Cyclopalladated 4,4'-Bis (Hexyloxy)-Azoxybenzene, a Complex Showing a Nematic Phase. <i>Molecular Crystals and Liquid Crystals</i> , 1996, 290, 87-98.	0.3	10
52	Reactivity of bis( $\eta^6$ -arene) derivatives of titanium, vanadium and niobium with fulvenes bearing electron-withdrawing substituents. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 4844-4855.	1.8	10
53	NMR Relaxometric Properties of SPION-Loaded Solid Lipid Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 823-829.	3.1	10
54	Hydration of MgO-Based Cement: Water Dynamics by $^1\text{H}$ Fast Field-Cycling NMR Relaxometry. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26851-26859.	3.1	10

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55	A <sup>2</sup> H NMR Study of Orientational Order and Spin Relaxation in the Mesogen p-Hexyloxybenzylidene- $\epsilon^2$ -Fluoroaniline. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 303, 415-429.	0.3	9
56	A deuterium NMR investigation of polymorphism in benzene pizanes. <i>Liquid Crystals</i> , 1997, 22, 1-9.	2.2	9
57	Fluidity Changes in Thylakoid Membranes of Durum Wheat Induced by Oxidative Stress: A Spin Probe EPR Study. <i>Journal of Physical Chemistry B</i> , 2001, 105, 3127-3134.	2.6	9
58	Conformations of Banana-Shaped Molecules Studied by <sup>2</sup> H NMR Spectroscopy in Liquid Crystalline Solvents. <i>Journal of Physical Chemistry B</i> , 2007, 111, 53-61.	2.6	9
59	Chemical implantation of Group 4 cations on silica via cyclopentadienyl- and N,N-dialkylcarbamato derivatives. <i>Inorganica Chimica Acta</i> , 2010, 363, 33-40.	2.4	9
60	Dynamics of two glass forming monohydroxy alcohols by field cycling <sup>1</sup> H NMR relaxometry. <i>Journal of Molecular Liquids</i> , 2018, 269, 847-854.	4.9	9
61	Anisotropy and NMR spectroscopy. <i>Rendiconti Lincei</i> , 2020, 31, 999-1010.	2.2	9
62	Stabilization and induction of discotic mesophases by trifluoroacetic acid. <i>Liquid Crystals</i> , 1997, 22, 621-630.	2.2	8
63	Dynamics of Liquid Crystals by Means of <sup>2</sup> H-NMR: a Comparison between 4,4'-bis(hexyloxy)azoxybenzene and the Derivative Pd(II) Complex AZPAC. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1998, 53, 427-435.	1.5	8
64	Effect of pH on Water Proton NMR Relaxation in Agmatine-Containing Poly(amidoamine) Hydrogels. <i>Langmuir</i> , 2009, 25, 2449-2455.	3.5	8
65	PVB/ATO Nanocomposites for Glass Coating Applications: Effects of Nanoparticles on the PVB Matrix. <i>Coatings</i> , 2019, 9, 247.	2.6	8
66	Glassy and Polymer Dynamics of Elastomers by <sup>1</sup> H Field-Cycling NMR Relaxometry: Effects of Cross-Linking. <i>Macromolecules</i> , 2020, 53, 10028-10039.	4.8	8
67	Influence of Sulfur-Curing Conditions on the Dynamics and Crosslinking of Rubber Networks: A Time-Domain NMR Study. <i>Polymers</i> , 2022, 14, 767.	4.5	8
68	Electronic properties of new homobimetallic anthracene-bridged $\delta^5$ -cyclopentadienyl derivatives of iridium(I) and of the corresponding cation radicals [L2Ir{C5H4CH2(9,10-anthrylene)CH2C5H4}IrL2] <sup>+</sup> . <i>Journal of Organometallic Chemistry</i> , 2006, 691, 2987-3002.	1.8	7
69	$\delta^4$ -1,2,4,5-Tetrazine-N1:N4-bis(pentaammineruthenium) tetracation: Synthesis and X-ray structure. <i>Inorganica Chimica Acta</i> , 2007, 360, 2814-2818.	2.4	7
70	Effects of post-reactor functionalization on the phase behaviour of an ethylene-1-octene copolymer studied using solid-state high resolution <sup>13</sup> C NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15584.	2.8	7
71	Orientational ordering studies of fluorinated thermotropic liquid crystals by NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2014, 52, 625-639.	1.9	7
72	Trapping of Gd(III) Ions by Keplerate Polyanionic Nanocapsules in Water: A <sup>1</sup> H Fast Field Cycling NMR Relaxometry Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18095-18102.	3.1	7

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73	Orientation, Structure and Dynamics in the Highly Ordered Smectic Phases of 7BEF5 by $^2\text{H-NMR}$ . <i>Molecular Crystals and Liquid Crystals</i> , 1999, 331, 9-19.	0.3	6
74	Dynamics of the Chiral Liquid Crystal 4-Butyl-4-(S)-(2-methylbutoxy)azoxybenzene in the Isotropic, Cholesteric, and Solid Phases: A Fast Field-Cycling NMR Relaxometry Study. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5083-5092.	2.6	6
75	Orientalional order of liquid crystals by $^{11}\text{B}$ NMR spectroscopy. <i>Chemical Physics Letters</i> , 2011, 508, 63-66.	2.6	5
76	Tuning the functionalization degree of amylose and amylopectin with photochromic spiropyran by CuAAC reaction. <i>Polymer</i> , 2017, 120, 82-93.	3.8	5
77	Dynamics of poly(vinyl butyral) studied using dielectric spectroscopy and $^1\text{H}$ NMR relaxometry. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31804-31812.	2.8	5
78	Glassy and Polymer Dynamics of Elastomers by $^1\text{H}$ -Field-Cycling NMR Relaxometry: Effects of Fillers. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4546-4554.	2.6	5
79	Orientalional Order, Molecular Organization, and Dynamics in Mixtures of Bent-Core and Rod-Shaped Mesogens: A $^2\text{H}$ NMR Study. <i>Journal of Physical Chemistry B</i> , 2011, 115, 440-449.	2.6	4
80	Reactivity of Tris(1-pyrazolyl)methane Towards RuO Complexes. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3529-3533.	2.0	4
81	NMR Relaxation Enhancement of Water Protons by Gd-Doped Boron Nitride Nanotubes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6473-6479.	3.1	4
82	Liquid Crystals Showing a Molecular Rearrangement: A Dynamic NMR Study of a 2-Acyloxytropone Mesogen and Two Related Compounds. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 266, 197-212.	0.3	3
83	Dynamic NMR Study of 1,3,5,7-Tetraoxacyclooctane in Liquid and Liquid Crystalline Solutions and in the Solid State. <i>The Journal of Physical Chemistry</i> , 1995, 99, 14942-14948.	2.9	3
84	Photochemistry of some 2,5-substituted tropone mesogens. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998, 117, 43-50.	3.9	3
85	Structure and Dynamics of High Molecular Weight Glutenin Subunits of Durum Wheat ( <i>Triticum</i> ) Tj ETQq1 1 0.784314 rgBT /Overl... Dichroism Spectroscopies. <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 359-365.	5.2	3
86	$^2\text{H}$ NMR and X-Ray Studies of a Substance Exhibiting Crystal-Like Smectic Phases. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 465, 109-119.	0.9	3
87	Dynamics of Dimethylbutanols in Plastic Crystalline Phases by Field Cycling $^1\text{H}$ NMR Relaxometry. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9792-9802.	2.6	3
88	Translational and rotational diffusion of three glass forming alcohols by $^1\text{H}$ field cycling NMR relaxometry. <i>Journal of Molecular Liquids</i> , 2021, 330, 115597.	4.9	3
89	Dynamics in the plastic crystalline phase of cyanocyclohexane and isocyanocyclohexane probed by $^1\text{H}$ field cycling NMR relaxometry. <i>Journal of Chemical Physics</i> , 2021, 154, 234506.	3.0	3
90	Unravelling Main- and Side-Chain Motions in Polymers with NMR Spectroscopy and Relaxometry: The Case of Polyvinyl Butyral. <i>Polymers</i> , 2021, 13, 2686.	4.5	3

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91	Orientalional order of p-n-alkoxybenzylidene-p-fluoroanilines. X-ray diffraction and electro-optic response of the chiral (S)-p-2-methylbutyloxy derivative. <i>Liquid Crystals</i> , 1997, 22, 99-106.	2.2	2
92	Isolation of Wheat Puroindoline-b from Flour by Preparative Acid Electrophoresis. <i>Cereal Chemistry</i> , 2003, 80, 99-101.	2.2	2
93	<sup>1</sup> H Magnetization Transfer in Hydrated Gluten and Flour: Effects of Wheat Aging. <i>Biomacromolecules</i> , 2004, 5, 1824-1831.	5.4	2
94	Collective and molecular motions of fluorinated liquid crystals by means of <sup>19</sup> F Fast Field-Cycling NMR relaxometry. <i>Chemical Physics Letters</i> , 2012, 549, 27-31.	2.6	2
95	Interaction of Azole Compounds with DOPC and DOPC/Ergosterol Bilayers by Spin Probe EPR Spectroscopy: Implications for Antifungal Activity. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11978-11987.	2.6	2
96	Orientalional Order of Two Fluoro- and Isothiocyanate-Substituted Nematogens by Combination of <sup>13</sup> C NMR Spectroscopy and DFT Calculations. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3469-3477.	2.6	2
97	High-Resolution Solid-State NMR of Gluten and Dough. , 2008, , 1769-1776.		1
98	Liquid Crystals and Liquid Crystal Solutions Studied by NMR. , 2010, , 1349-1356.		1
99	Boron nitride nanotubes as magnetic resonance imaging contrast agents. , 2016, , 111-121.		1
100	Liquid Crystals and Liquid Crystal Solutions Studied By NMR. , 1999, , 1179-1186.		0
101	<sup>2</sup> H-NMR of the Induced Chiral Phases of Acrylate-Metacrylate Liquid Crystalline Copolymers. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 429, 181-191.	0.9	0
102	Liquid Crystals and Liquid Crystal Solutions Studied by NMR. , 2017, , 604-610.		0