

Lucia Calucci

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3870787/publications.pdf>

Version: 2024-02-01

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 | 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 |
| 2 | Glassy and Polymer Dynamics of Elastomers by ¹ H-Field-Cycling NMR Relaxometry: Effects of Fillers. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4546-4554. | 2.6 | 5 |
| 3 | Translational and rotational diffusion of three glass forming alcohols by ¹ H field cycling NMR relaxometry. <i>Journal of Molecular Liquids</i> , 2021, 330, 115597. | 4.9 | 3 |
| 4 | Dynamics in the plastic crystalline phase of cyanocyclohexane and isocyanocyclohexane probed by ¹ H field cycling NMR relaxometry. <i>Journal of Chemical Physics</i> , 2021, 154, 234506. | 3.0 | 3 |
| 5 | Interlayer Coordination of Pd ²⁺ Pd Units in Exfoliated Black Phosphorus. <i>Journal of the American Chemical Society</i> , 2021, 143, 10088-10098. | 13.7 | 16 |
| 6 | 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 |
| 7 | 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 |
| 8 | Anisotropy and NMR spectroscopy. <i>Rendiconti Lincei</i> , 2020, 31, 999-1010. | 2.2 | 9 |
| 9 | Glassy and Polymer Dynamics of Elastomers by ¹ H Field-Cycling NMR Relaxometry: Effects of Cross-Linking. <i>Macromolecules</i> , 2020, 53, 10028-10039. | 4.8 | 8 |
| 10 | 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 |
| 11 | Phosphorene and Black Phosphorus: The ³¹ P NMR View. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5122-5127. | 4.6 | 21 |
| 12 | PVB/ATO Nanocomposites for Glass Coating Applications: Effects of Nanoparticles on the PVB Matrix. <i>Coatings</i> , 2019, 9, 247. | 2.6 | 8 |
| 13 | Trapping of Gd(III) Ions by Keplerate Polyanionic Nanocapsules in Water: A ¹ H Fast Field Cycling NMR Relaxometry Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18095-18102. | 3.1 | 7 |
| 14 | 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 |
| 15 | 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 & Interfaces</i> , 2019, 11, 22637-22647. | 8.0 | 42 |
| 16 | Monitoring the hydration of MgO-based cement and its mixtures with Portland cement by ¹ H NMR relaxometry. <i>Microporous and Mesoporous Materials</i> , 2018, 269, 26-30. | 4.4 | 19 |
| 17 | Dynamics of Dimethylbutanols in Plastic Crystalline Phases by Field Cycling ¹ H NMR Relaxometry. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9792-9802. | 2.6 | 3 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Dynamics of two glass forming monohydroxy alcohols by field cycling ¹ H NMR relaxometry. Journal of Molecular Liquids, 2018, 269, 847-854. | 4.9 | 9 |
| 20 | Traditional Portland cement and MgO-based cement: a promising combination?. Physics and Chemistry of the Earth, 2017, 99, 158-167. | 2.9 | 18 |
| 21 | Tuning the functionalization degree of amylose and amylopectin with photochromic spiropyran by CuAAC reaction. Polymer, 2017, 120, 82-93. | 3.8 | 5 |
| 22 | NMR Relaxometric Properties of SPION-Loaded Solid Lipid Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 823-829. | 3.1 | 10 |
| 23 | Effects of pyrolysis conditions on Miscanthus and corncob chars: Characterization by IR, solid state NMR and BPCA analysis. Journal of Analytical and Applied Pyrolysis, 2017, 128, 335-345. | 5.5 | 25 |
| 24 | Hydration of MgO/SiO ₂ and Portland cement mixtures: A structural investigation of the hydrated phases by means of X-ray diffraction and solid state NMR spectroscopy. Cement and Concrete Research, 2017, 102, 60-67. | 11.0 | 24 |
| 25 | Dynamics of poly(vinyl butyral) studied using dielectric spectroscopy and ¹ H NMR relaxometry. Physical Chemistry Chemical Physics, 2017, 19, 31804-31812. | 2.8 | 5 |
| 26 | Hydration of MgO-Based Cement: Water Dynamics by ¹ H Fast Field-Cycling NMR Relaxometry. Journal of Physical Chemistry C, 2017, 121, 26851-26859. | 3.1 | 10 |
| 27 | Liquid Crystals and Liquid Crystal Solutions Studied by NMR. , 2017, , 604-610. | | 0 |
| 28 | Dynamics of the Chiral Liquid Crystal 4- ² -Butyl-4-(<i>S</i>)-(2-methylbutoxy)azoxybenzene in the Isotropic, Cholesteric, and Solid Phases: A Fast Field-Cycling NMR Relaxometry Study. Journal of Physical Chemistry B, 2016, 120, 5083-5092. | 2.6 | 6 |
| 29 | Structural characterization of magnesium silicate hydrate: towards the design of eco-sustainable cements. Dalton Transactions, 2016, 45, 3294-3304. | 3.3 | 74 |
| 30 | Boron nitride nanotubes as magnetic resonance imaging contrast agents. , 2016, , 111-121. | | 1 |
| 31 | Active Targeting of Sorafenib: Preparation, Characterization, and In Vitro Testing of Drug-Loaded Magnetic Solid Lipid Nanoparticles. Advanced Healthcare Materials, 2015, 4, 1681-1690. | 7.6 | 81 |
| 32 | Interaction of cisplatin and two potential antitumoral platinum(II) complexes with a model lipid membrane: a combined NMR and MD study. Physical Chemistry Chemical Physics, 2015, 17, 1458-1468. | 2.8 | 16 |
| 33 | Kinetically stable metal ligand charge transfer complexes as crosslinks in nanogels/hydrogels: Physical properties and cytotoxicity. Acta Biomaterialia, 2015, 26, 136-144. | 8.3 | 15 |
| 34 | Effects of azole treatments on the physical properties of Candida albicans plasma membrane: A spin probe EPR study. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 465-473. | 2.6 | 11 |
| 35 | Orientational ordering studies of fluorinated thermotropic liquid crystals by NMR spectroscopy. Magnetic Resonance in Chemistry, 2014, 52, 625-639. | 1.9 | 7 |
| 36 | NMR Relaxation Enhancement of Water Protons by Gd-Doped Boron Nitride Nanotubes. Journal of Physical Chemistry C, 2014, 118, 6473-6479. | 3.1 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Orientational Order of Two Fluoro- and Isothiocyanate-Substituted Nematogens by Combination of ^{13}C NMR Spectroscopy and DFT Calculations. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3469-3477. | 2.6 | 2 |
| 38 | Characterization of an amylose-graft-poly(n-butyl methacrylate) copolymer obtained by click chemistry by EPR and SS-NMR spectroscopies. <i>Carbohydrate Polymers</i> , 2014, 112, 245-254. | 10.2 | 18 |
| 39 | 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 |
| 40 | Effects of post-reactor functionalization on the phase behaviour of an ethylene-1-octene copolymer studied using solid-state high resolution ^{13}C NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15584. | 2.8 | 7 |
| 41 | Solid-State Nuclear Magnetic Resonance Characterization of Chars Obtained from Hydrothermal Carbonization of Corncob and Miscanthus. <i>Energy & Fuels</i> , 2013, 27, 303-309. | 5.1 | 41 |
| 42 | 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 |
| 43 | Gd-doped BNNTs as T2-weighted MRI contrast agents. <i>Nanotechnology</i> , 2013, 24, 315101. | 2.6 | 13 |
| 44 | Collective and molecular motions of fluorinated liquid crystals by means of ^{19}F Fast Field-Cycling NMR relaxometry. <i>Chemical Physics Letters</i> , 2012, 549, 27-31. | 2.6 | 2 |
| 45 | Stereocomplexed 8-armed poly(ethylene glycol)- α -poly(lactide) star block copolymer hydrogels: Gelation mechanism, mechanical properties and degradation behavior. <i>Polymer</i> , 2012, 53, 2809-2817. | 3.8 | 51 |
| 46 | Orientational Order, Molecular Organization, and Dynamics in Mixtures of Bent-Core and Rod-Shaped Mesogens: A ^2H NMR Study. <i>Journal of Physical Chemistry B</i> , 2011, 115, 440-449. | 2.6 | 4 |
| 47 | 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 |
| 48 | Self-Assembly and Photo-Cross-Linking of Eight-Armed PEG-PTMC Star Block Copolymers. <i>Biomacromolecules</i> , 2011, 12, 2746-2754. | 5.4 | 19 |
| 49 | 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 |
| 50 | Reactivity of Tris(1-pyrazolyl)methane Towards RuO Complexes. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3529-3533. | 2.0 | 4 |
| 51 | Orientational order of liquid crystals by ^{11}B NMR spectroscopy. <i>Chemical Physics Letters</i> , 2011, 508, 63-66. | 2.6 | 5 |
| 52 | 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 |
| 53 | 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 |
| 54 | Orientational order in liquid crystals by combining ^2H and ^{13}C NMR spectroscopies. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1155-1161. | 2.1 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Self-Aggregation of Gel Forming PEG-PLA Star Block Copolymers in Water. <i>Langmuir</i> , 2010, 26, 12890-12896. | 3.5 | 28 |
| 56 | Boron Nitride Nanotubes as T_2 -Weighted MRI Contrast Agents. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2561-2565. | 4.6 | 27 |
| 57 | Liquid Crystals and Liquid Crystal Solutions Studied by NMR. , 2010, , 1349-1356. | | 1 |
| 58 | Proton longitudinal relaxation coupling in dynamically heterogeneous soft systems. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2009, 55, 296-323. | 7.5 | 22 |
| 59 | Effect of pH on Water Proton NMR Relaxation in Arginine-Containing Poly(amidoamine) Hydrogels. <i>Langmuir</i> , 2009, 25, 2449-2455. | 3.5 | 8 |
| 60 | 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 |
| 61 | 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 |
| 62 | High-Resolution Solid-State NMR of Gluten and Dough. , 2008, , 1769-1776. | | 1 |
| 63 | 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 |
| 64 | Water/polymer interactions in poly(amidoamine) hydrogels by 1H nuclear magnetic resonance relaxation and magnetization transfer. <i>Journal of Chemical Physics</i> , 2008, 129, 064511. | 3.0 | 14 |
| 65 | 2H 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 |
| 66 | Conformations of Banana-Shaped Molecules Studied by 2H NMR Spectroscopy in Liquid Crystalline Solvents. <i>Journal of Physical Chemistry B</i> , 2007, 111, 53-61. | 2.6 | 9 |
| 67 | Water/Polymer Interactions in a Poly(amidoamine) Hydrogel Studied by NMR Spectroscopy. <i>Biomacromolecules</i> , 2007, 8, 2936-2942. | 5.4 | 19 |
| 68 | \hat{I}^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 |
| 69 | Synthesis of chromium(0) and molybdenum(0) bis(\hat{I} -6-arene) derivatives and their monoelectronic oxidation to $[M(\hat{I}$ -6-arene) $_2$] $^+$ cations. <i>Dalton Transactions</i> , 2006, , 4228-4234. | 3.3 | 14 |
| 70 | 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 |
| 71 | Synthesis and characterization of chromium(II) bis(\hat{I} -6-toluene) derivatives containing sterically demanding anions. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 829-836. | 1.8 | 20 |
| 72 | Electronic properties of new homobimetallic anthracene-bridged \hat{I} -5-cyclopentadienyl derivatives of iridium(II) and of the corresponding cation radicals $[L2Ir\{C5H4CH2(9,10-anthrylene)CH2C5H4\}IrL2]^+$. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 2987-3002. | 1.8 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Reactivity of bis(η -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 |
| 74 | ^2H -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 |
| 75 | 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 |
| 76 | 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 |
| 77 | ^1H Magnetization Transfer in Hydrated Gluten and Flour: Effects of Wheat Aging. <i>Biomacromolecules</i> , 2004, 5, 1824-1831. | 5.4 | 2 |
| 78 | 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 |
| 79 | Effects of $^{\text{60}}\text{Co}$ -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 |
| 80 | 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 |
| 81 | ^{13}C and ^1H solid state NMR investigation of hydration effects on gluten dynamics. <i>International Journal of Biological Macromolecules</i> , 2003, 32, 179-189. | 7.5 | 38 |
| 82 | Isolation of Wheat Puroindoline-b from Flour by Preparative Acid Electrophoresis. <i>Cereal Chemistry</i> , 2003, 80, 99-101. | 2.2 | 2 |
| 83 | 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 |
| 84 | 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 |
| 85 | Intermediate free radicals in the oxidation of wastewaters. <i>Research on Chemical Intermediates</i> , 2002, 28, 247-256. | 2.7 | 51 |
| 86 | Structure and Dynamics of High Molecular Weight Glutenin Subunits of Durum Wheat (<i>Triticum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 Dichroism Spectroscopies. <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 359-365. | 5.2 | 3 |
| 87 | 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 |
| 88 | CAGE: 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 |
| 89 | 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 |
| 90 | Conformational dynamics of a metallomesogen studied by ^2H NMR spectroscopy. <i>Physical Review E</i> , 2000, 61, 1559-1566. | 2.1 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | 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 |
| 92 | Liquid Crystals and Liquid Crystal Solutions Studied By NMR. , 1999, , 1179-1186. | | 0 |
| 93 | Orientation, Structure and Dynamics in the Highly Ordered Smectic Phases of 7BEF5 by ² H-NMR. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 331, 9-19. | 0.3 | 6 |
| 94 | Photochemistry of some 2,5-substituted tropone mesogens. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998, 117, 43-50. | 3.9 | 3 |
| 95 | Dynamics of Liquid Crystals by Means of ² 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 |
| 96 | 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 |
| 97 | A ² H NMR Study of Orientalional Order and Spin Relaxation in the Mesogen p-Hexyloxybenzylidene-p-Fluoroaniline. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 303, 415-429. | 0.3 | 9 |
| 98 | Stabilization and induction of discotic mesophases by trifluoroacetic acid. <i>Liquid Crystals</i> , 1997, 22, 621-630. | 2.2 | 8 |
| 99 | A deuterium NMR investigation of polymorphism in benzene pizanes. <i>Liquid Crystals</i> , 1997, 22, 1-9. | 2.2 | 9 |
| 100 | ² 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 |
| 101 | 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 |
| 102 | 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 |