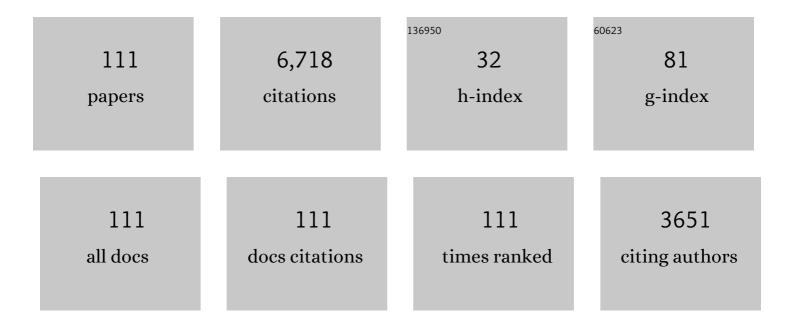
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7640547/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Nonexponential relaxations in strong and fragile glass formers. Journal of Chemical Physics, 1993, 99, 4201-4209. | 3.0 | 2,192 |
| 2 | Correlations of the nonexponentiality and state dependence of mechanical relaxations with bond connectivity in Ge-As-Se supercooled liquids. Physical Review B, 1992, 45, 10091-10094. | 3.2 | 484 |
| 3 | Nonresonant Spectral Hole Burning in the Slow Dielectric Response of Supercooled Liquids. Science, 1996, 274, 752-754. | 12.6 | 326 |
| 4 | Dynamics of supercooled liquids and glassy solids. Progress in Nuclear Magnetic Resonance Spectroscopy, 2001, 39, 191-267. | 7.5 | 275 |
| 5 | Water's second glass transition. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17720-17725. | 7.1 | 243 |
| 6 | Structure and dynamics of monohydroxy alcohols—Milestones towards their microscopic understanding, 100Âyears after Debye. Physics Reports, 2014, 545, 125-195. | 25.6 | 221 |
| 7 | Solid-state Li NMR with applications to the translational dynamics in ion conductors. Progress in Nuclear Magnetic Resonance Spectroscopy, 2007, 50, 87-174. | 7.5 | 213 |
| 8 | Nuclear-Magnetic-Resonance Measurements Reveal the Origin of the Debye Process in Monohydroxy Alcohols. Physical Review Letters, 2010, 105, 258303. | 7.8 | 158 |
| 9 | <i>Colloquium</i> : Water's controversial glass transitions. Reviews of Modern Physics, 2016, 88, . | 45.6 | 146 |
| 10 | Radioâ€frequency dielectric measurements at temperatures from 10 to 450 K. Journal of Applied Physics, 1989, 65, 901-904. | 2.5 | 114 |
| 11 | Shear-Modulus Investigations of Monohydroxy Alcohols: Evidence for a Short-Chain-Polymer Rheological Response. Physical Review Letters, 2014, 112, 098301. | 7.8 | 98 |
| 12 | Reorientations in supercooled glycerol studied by two-dimensional time-domain deuteron nuclear magnetic resonance spectroscopy. Journal of Chemical Physics, 1998, 109, 241-248. | 3.0 | 95 |
| 13 | High-frequency dielectric spectroscopy on glycerol. Europhysics Letters, 1996, 33, 611-616. | 2.0 | 91 |
| 14 | Nanoscale heterogeneity if glass-forming liquids: experimental advances. Current Opinion in Solid State and Materials Science, 1998, 3, 378-385. | 11.5 | 85 |
| 15 | Ion transport in the fragile glass former3KNO3-2Ca(NO3)2. Physical Review E, 1996, 54, 676-684. | 2.1 | 82 |
| 16 | Hydrogen-Bond Equilibria and Lifetimes in a Monohydroxy Alcohol. Physical Review Letters, 2011, 107, 118304. | 7.8 | 82 |
| 17 | Rotational correlation functions and apparently enhanced translational diffusion in a free-energy landscape model for the α relaxation in glass-forming liquids. Physical Review E, 1998, 57, 4398-4410. | 2.1 | 76 |
| 18 | Liquid 1-propanol studied by neutron scattering, near-infrared, and dielectric spectroscopy. Journal of Chemical Physics, 2014, 140, 124501. | 3.0 | 68 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Debye relaxation and 250 K anomaly in glass forming monohydroxy alcohols. Journal of Chemical Physics, 2013, 138, 094505. | 3.0 | 59 |
| 20 | Anomalously large isotope effect in the glass transition of water. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17402-17407. | 7.1 | 57 |
| 21 | Evolution of excess wing and β-process in simple glass formers. Journal of Chemical Physics, 2009, 131, 184510. | 3.0 | 56 |
| 22 | Diluting the hydrogen bonds in viscous solutions of n-butanol with n-bromobutane: A dielectric study. Journal of Chemical Physics, 2008, 128, 154520. | 3.0 | 53 |
| 23 | Nuclear magnetic resonance and dielectric spectroscopy of a simple supercooled liquid: 2-methyl tetrahydrofuran. Journal of Chemical Physics, 2003, 118, 7431. | 3.0 | 49 |
| 24 | Structural relaxation of the fragile glass-former propylene carbonate studied by nuclear magnetic resonance. Journal of Chemical Physics, 2000, 112, 9455-9462. | 3.0 | 44 |
| 25 | Nuclear magnetic resonance and dielectric noise study of spectral densities and correlation functions in the glass forming monoalcohol 2-ethyl-1-hexanol. Journal of Chemical Physics, 2011, 135, 174511. | 3.0 | 43 |
| 26 | Oscillatory shear and high-pressure dielectric study of 5-methyl-3-heptanol. Colloid and Polymer Science, 2014, 292, 1913-1921. | 2.1 | 42 |
| 27 | Experimental studies of Debye-like process and structural relaxation in mixtures of 2-ethyl-1-hexanol and 2-ethyl-1-hexyl bromide. Journal of Chemical Physics, 2012, 137, 144502. | 3.0 | 40 |
| 28 | Advances in the study of supercooled water. European Physical Journal E, 2021, 44, 143. | 1.6 | 40 |
| 29 | Shear and dielectric responses of propylene carbonate, tripropylene glycol, and a mixture of two secondary amides. Journal of Chemical Physics, 2012, 137, 064508. | 3.0 | 37 |
| 30 | Diluting the hydrogen bonds in viscous solutions of n-butanol with n-bromobutane: II. A comparison of rotational and translational motions. Journal of Chemical Physics, 2011, 134, 064512. | 3.0 | 35 |
| 31 | Experiments indicating a second hydrogen ordered phase of ice VI. Chemical Science, 2018, 9, 4224-4234. | 7.4 | 35 |
| 32 | Reorientational dynamics in simple supercooled liquids. Journal of Non-Crystalline Solids, 1998, 235-237, 121-127. | 3.1 | 34 |
| 33 | Silver ion dynamics in silver borate glasses: spectra and multiple-time correlation functions from 109Ag-NMR. Solid State Nuclear Magnetic Resonance, 2005, 27, 122-131. | 2.3 | 31 |
| 34 | Amorphous polymorphis in ice investigated by inelastic neutron scattering. Physica B: Condensed Matter, 1997, 241-243, 897-902. | 2.7 | 30 |
| 35 | Ionic transport and heat capacity of glass-forming metalî—,nitrate mixtures. Journal of Non-Crystalline Solids, 1997, 220, 93-101. | 3.1 | 28 |
| 36 | Broadband dynamics in neat 4-methyl-3-heptanol and in mixtures with 2-ethyl-1-hexanol. Journal of Chemical Physics, 2013, 139, 134503. | 3.0 | 28 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Positive and Negative Mixed Glass Former Effects in Sodium Borosilicate and Borophosphate Glasses Studied by 23Na NMR. Journal of Physical Chemistry B, 2016, 120, 4482-4495. | 2.6 | 28 |
| 38 | Translational and reorientational dynamics in deep eutectic solvents. Journal of Chemical Physics, 2021, 154, 154501. | 3.0 | 27 |
| 39 | Mixed Debye-type liquids studied by dielectric, shear mechanical, nuclear magnetic resonance, and near-infrared spectroscopy. Journal of Non-Crystalline Solids, 2015, 407, 384-391. | 3.1 | 26 |
| 40 | Generic Primary Mechanical Response of Viscous Liquids. Physical Review Letters, 2017, 119, 248001. | 7.8 | 25 |
| 41 | Systematic differences in the relaxation stretching of polar molecular liquids probed by dielectric vs magnetic resonance and photon correlation spectroscopy. Journal of Chemical Physics, 2020, 153, 124510. | 3.0 | 25 |
| 42 | Relaxation dynamics and transformation kinetics of deeply supercooled water: Temperature, pressure, doping, and proton/deuteron isotope effects. Journal of Chemical Physics, 2017, 147, 034506. | 3.0 | 23 |
| 43 | Second-order quadrupole interaction based detection of ultra-slow motions: Tensor operator framework for central-transition spectroscopy and the dynamics in hexagonal ice as an experimental example. Journal of Magnetic Resonance, 2014, 249, 141-149. | 2.1 | 22 |
| 44 | Dynamics enhanced by HCl doping triggers 60% Pauling entropy release at the ice XII–XIV transition. Nature Communications, 2015, 6, 7349. | 12.8 | 22 |
| 45 | The methyl group as a built-in probe of the glassy dynamics in propylene carbonate. Physical Chemistry Chemical Physics, 2001, 3, 4022-4028. | 2.8 | 21 |
| 46 | Connecting structurally and dynamically detected signatures of supramolecular Debye liquids. Journal of Chemical Physics, 2017, 147, 234501. | 3.0 | 21 |
| 47 | Energy landscape in molecular glasses probed by high-resolution dielectric experiments. Physical Review B, 2010, 82, . | 3.2 | 20 |
| 48 | Two-dimensional second-order quadrupolar exchange powder spectra for nuclei with half-integer spins. Calculations and an experimental example using oxygen NMR. Solid State Nuclear Magnetic Resonance, 2015, 71, 96-107. | 2.3 | 20 |
| 49 | Glass Transitions and Relaxation Phenomena in Orientational Glasses and Supercooled Plastic Crystals. , 1994, , 659-696. | | 20 |
| 50 | 2H NMR studies of supercooled and glassy aspirin. Journal of Non-Crystalline Solids, 2007, 353, 3788-3795. | 3.1 | 19 |
| 51 | Relaxation in the glass former acetylsalicylic acid studied by deuteron magnetic resonance and dielectric spectroscopy. Physical Review E, 2006, 74, 021506. | 2.1 | 18 |
| 52 | Water dynamics on the hydrate lattice of a tetrabutyl ammonium bromide semiclathrate. Journal of Chemical Physics, 2009, 130, 104505. | 3.0 | 18 |
| 53 | Supramolecular x-ray signature of susceptibility amplification in hydrogen-bonded liquids. Physical Review E, 2014, 90, 052807. | 2.1 | 18 |
| 54 | Structure and dynamics of short-chain polymerized ionic liquids. Journal of Chemical Physics, 2019, 151, 034903. | 3.0 | 18 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | lsotope effects on the dynamics of a supercooled van der Waals liquid. Europhysics Letters, 2000, 49, 748-753. | 2.0 | 17 |
| 56 | Dielectric relaxation processes in solid and supercooled liquid solutions of acetaminophen and nifedipine. Journal of Physics Condensed Matter, 2007, 19, 205134. | 1.8 | 17 |
| 57 | The lithium ion conductor β-spodumene: an orientational glass. Zeitschrift Für Physik B-Condensed Matter, 1996, 100, 583-593. | 1.1 | 16 |
| 58 | Water dynamics on ice and hydrate lattices studied by second-order central-line stimulated-echo oxygen-17 nuclear magnetic resonance. Journal of Chemical Physics, 2015, 143, 214201. | 3.0 | 16 |
| 59 | Dynamics in Supercooled Secondary Amide Mixtures: Dielectric and Hydrogen Bond Specific Spectroscopies. Journal of Physical Chemistry B, 2015, 119, 15769-15779. | 2.6 | 16 |
| 60 | Doping-enhanced dipolar dynamics in ice V as a precursor of hydrogen ordering in ice XIII. Physical Review B, 2016, 94, . | 3.2 | 16 |
| 61 | Two-site jumps in dimethyl sulfone studied by one- and two-dimensional 170 NMR spectroscopy. Journal of Magnetic Resonance, 2018, 288, 84-94. | 2.1 | 16 |
| 62 | Local and global dynamics of the viscous ion conductors 2Ca(NO3)2-3KNO3 and 2Ca(NO3)2-3RbNO3 probed by 87Rb nuclear magnetic resonance and shear rheology. Journal of Chemical Physics, 2019, 150, 194503. | 3.0 | 16 |
| 63 | Deeply supercooled aqueous LiCl solution studied by frequency-resolved shear rheology. Journal of Chemical Physics, 2019, 150, 234505. | 3.0 | 16 |
| 64 | Nuclear Spin Relaxation in Viscous Liquids: Relaxation Stretching of Single-Particle Probes. Journal of Physical Chemistry B, 2021, 125, 13519-13532. | 2.6 | 16 |
| 65 | Communication: Correlation of terminal relaxation rate and viscosity enhancement in supramolecular small-molecule liquids. Journal of Chemical Physics, 2018, 148, 221102. | 3.0 | 15 |
| 66 | Nature of Water's Second Glass Transition Elucidated by Doping and Isotope Substitution Experiments. Physical Review X, 2019, 9, . | 8.9 | 15 |
| 67 | Chapter 7. NMR Studies of Ionic Dynamics in Solids. New Developments in NMR, 2018, , 193-230. | 0.1 | 15 |
| 68 | Slow and fast methyl group rotations in fragile glass-formers studied by NMR. Chemical Physics Letters, 2000, 328, 257-262. | 2.6 | 14 |
| 69 | Stimulated echoes and two-dimensional nuclear magnetic resonance spectra for solids with simple line shapes. Journal of Chemical Physics, 2008, 128, 114506. | 3.0 | 14 |
| 70 | Tuning the dynamics of imidazolium-based ionic liquids via hydrogen bonding. I. The viscous regime. Journal of Chemical Physics, 2020, 153, 194501. | 3.0 | 14 |
| 71 | Transient Nonlinear Response of Dynamically Decoupled Ionic Conductors. Physical Review Letters, 2018, 121, 064503. | 7.8 | 13 |
| 72 | Dynamics in Glass Forming Sulfuric and Nitric Acid Hydrates. Journal of Physical Chemistry B, 2013, 117, 12164-12174. | 2.6 | 12 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Deuteron magnetic resonance and dielectric studies of guest reorientation and water dynamics in six clathrate hydrates containing ring-type guests. Journal of Non-Crystalline Solids, 2015, 407, 431-440. | 3.1 | 12 |
| 74 | Coexistence of two structural relaxation processes in monohydroxy alcohol–alkyl halogen mixtures: Dielectric and rheological studies. Journal of Chemical Physics, 2018, 149, 044509. | 3.0 | 12 |
| 75 | Slow processes in viscous liquids: Stress and structural relaxation, chemical reaction freezing, crystal nucleation and microemulsion arrest, in relation to liquid fragility. AIP Conference Proceedings, 1992, , . | 0.4 | 11 |
| 76 | Deuteron and carbon magnetic resonance studies of supercooled liquid and glassy salol. Journal of Chemical Physics, 2000, 112, 5884-5892. | 3.0 | 11 |
| 77 | Linear and nonlinear shear studies reveal supramolecular responses in supercooled monohydroxy alcohols with faint dielectric signatures. Journal of Chemical Physics, 2019, 150, 104501. | 3.0 | 11 |
| 78 | Molecular Cross-correlations Govern Structural Rearrangements in a Nonassociating Polar Glass Former. Physical Review Letters, 2022, 128, . | 7.8 | 11 |
| 79 | Structural relaxation in a molten salt probed by time-dependent dc conductivity measurements. Journal of Non-Crystalline Solids, 1997, 212, 89-94. | 3.1 | 10 |
| 80 | 87Rb NMR Studies of Molten and Glassy 2Ca(NO3)2â^'3RbNO3. Journal of Physical Chemistry B, 1999, 103, 4109-4112. | 2.6 | 10 |
| 81 | Molecular Motions in Supercooled and Glassy Ibuprofen: Deuteron Magnetic Resonance and High-Resolution Rheology Study. Journal of Physical Chemistry B, 2015, 119, 5087-5095. | 2.6 | 10 |
| 82 | Thermodynamic and kinetic isotope effects on the order–disorder transition of ice XIV to ice XII. Physical Chemistry Chemical Physics, 2018, 20, 21607-21616. | 2.8 | 10 |
| 83 | Amorphous and crystalline ices studied by dielectric spectroscopy. Journal of Chemical Physics, 2019, 150, 244501. | 3.0 | 10 |
| 84 | The relaxation behavior of supercooled and glassy imidacloprid. Journal of Chemical Physics, 2021, 155, 174502. | 3.0 | 10 |
| 85 | Vibrational study of anharmonicity, supramolecular structure, and hydrogen bonding in two octanol isomers. Vibrational Spectroscopy, 2015, 79, 59-66. | 2.2 | 9 |
| 86 | Isomeric effects in structure formation and dielectric dynamics of different octanols. Physical Chemistry Chemical Physics, 2021, 23, 24211-24221. | 2.8 | 9 |
| 87 | Experimental evidence for two distinct deeply supercooled liquid states of water – Response to "Comment on †Water's second glass transitionâ€â€™, by G.P. Johari, Thermochim. Acta (2015). Thermochimica Acta, 2015, 617, 200-207. | 2.7 | 8 |
| 88 | Communication: Heterogeneous water dynamics on a clathrate hydrate lattice detected by multidimensional oxygen nuclear magnetic resonance. Journal of Chemical Physics, 2017, 146, . | 3.0 | 8 |
| 89 | Reorientational dynamics of trimethoxyboroxine: A molecular glass former studied by dielectric spectroscopy and 11B nuclear magnetic resonance. Journal of Chemical Physics, 2020, 152, 034503. | 3.0 | 8 |
| 90 | Dielectric study of the viscous and glassy states of a binary, nifedipine-based pharmaceutical alloy. Journal of Non-Crystalline Solids, 2006, 352, 4459-4463. | 3.1 | 7 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Deuteron nuclear magnetic resonance and dielectric study of host and guest dynamics in KOH-doped tetrahydrofuran clathrate hydrate. Physical Review B, 2010, 81, . | 3.2 | 7 |
| 92 | Dielectric study of orientational disorder in (CO2)1â^'x(N2O)xmixed crystals. Physical Review B, 1990, 42, 1439-1443. | 3.2 | 6 |
| 93 | Communication: Nonadditive dielectric susceptibility spectra of associating liquids. Journal of Chemical Physics, 2017, 146, 101101. | 3.0 | 6 |
| 94 | Interplay of defect doping and Bernal-Fowler rules: A simulation study of the dynamics on ice lattices. Physical Review B, 2017, 96, . | 3.2 | 6 |
| 95 | Scaling of Suprastructure and Dynamics in Pure and Mixed Debye Liquids. Advances in Dielectrics, 2018, , 121-171. | 1.2 | 6 |
| 96 | First-Order and Third-Order Nonlinearities from Medium-Amplitude Oscillatory Shearing of Hydrogen-Bonded Polymers and Other Viscoelastic Materials. Macromolecules, 2019, 52, 8690-8704. | 4.8 | 6 |
| 97 | Nonlinear electrical and rheological spectroscopies identify structural and supramolecular relaxations in a model peptide. Soft Matter, 2019, 15, 4334-4345. | 2.7 | 6 |
| 98 | Suppression of Orientational Correlations in the Viscous-Liquid State of Hyperquenched Pressure-Densified Glycerol. Physical Review Letters, 2020, 125, 065503. | 7.8 | 5 |
| 99 | Rheology based estimates of self- and collective diffusivities in viscous liquids. Journal of Chemical Physics, 2021, 155, 011101. | 3.0 | 5 |
| 100 | The relationship between charge and molecular dynamics in viscous acid hydrates. Journal of Chemical Physics, 2021, 155, 014505. | 3.0 | 5 |
| 101 | Dynamics of Glass Forming Ammonia Hydrates. Journal of Physical Chemistry B, 2013, 117, 12157-12163. | 2.6 | 4 |
| 102 | Salty Water in KOH-Doped Hexagonal Ice: a Proton and Deuteron NMR Study. Applied Magnetic Resonance, 2013, 44, 203-215. | 1.2 | 4 |
| 103 | Deuteron magnetic resonance study of glyceline deep eutectic solvents: Selective detection of choline and glycerol dynamics. Journal of Chemical Physics, 2022, 156, . | 3.0 | 4 |
| 104 | First- and third-order shear nonlinearities across the structural relaxation peak of the deeply supercooled pharmaceutical liquid indomethacin. Journal of Chemical Physics, 2021, 155, 134901. | 3.0 | 3 |
| 105 | Oxygen NMR of high-density and low-density amorphous ice. Journal of Chemical Physics, 2022, 156, 084503. | 3.0 | 3 |
| 106 | Predicting Dielectric and Shear-Rheology Properties of Glass-Forming Pharmaceutical Liquids from Each Other: Applications and Limitations. Molecular Pharmaceutics, 2022, 19, 1586-1597. | 4.6 | 3 |
| 107 | From Ultraslow to Extremely Fast Dynamics in Sodium Nitrate: an 170 NMR Study. Applied Magnetic Resonance, 2020, 51, 597-620. | 1.2 | 2 |
| 108 | Deuteron nuclear magnetic resonance and dielectric studies of molecular reorientation and charge transport in succinonitrile-glutaronitrile plastic crystals. Journal of Non-Crystalline Solids: X, 2022, 14, 100097. | 1.2 | 2 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Time Scales of the Quasitetrahedral Motion in KMnO ₄ Observed by ¹⁷ O Central-Transition NMR Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 16202-16208. | 3.1 | 1 |
| 110 | How the cation size impacts on the relaxational and diffusional dynamics of supercooled butylammonium-based ionic liquids: DPEBA–TFSI versus BTMA–TFSI. Zeitschrift Fur Physikalische Chemie, 2021, . | 2.8 | 1 |
| 111 | Isotope effects on the dynamics of amorphous ices and aqueous phosphoric acid solutions. Physical Chemistry Chemical Physics, 2022, 24, 14846-14856. | 2.8 | 1 |