

Ronald Soong

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,984
citations

279798

23
h-index

265206

42
g-index

60
all docs

60
docs citations

60
times ranked

1559
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A ubiquitous tire rubber-derived chemical induces acute mortality in coho salmon. <i>Science</i> , 2021, 371, 185-189. | 12.6 | 504 |
| 2 | Comprehensive multiphase NMR spectroscopy: Basic experimental approaches to differentiate phases in heterogeneous samples. <i>Journal of Magnetic Resonance</i> , 2012, 217, 61-76. | 2.1 | 92 |
| 3 | Comprehensive multiphase NMR applied to a living organism. <i>Chemical Science</i> , 2016, 7, 4856-4866. | 7.4 | 79 |
| 4 | Soil Organic Matter in Its Native State: Unravelling the Most Complex Biomaterial on Earth. <i>Environmental Science & Technology</i> , 2016, 50, 1670-1680. | 10.0 | 77 |
| 5 | <i>In vivo</i> NMR spectroscopy: toward real time monitoring of environmental stress. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 774-779. | 1.9 | 53 |
| 6 | Environmental Nuclear Magnetic Resonance Spectroscopy: An Overview and a Primer. <i>Analytical Chemistry</i> , 2018, 90, 628-639. | 6.5 | 53 |
| 7 | Development and Application of a Low-Volume Flow System for Solution-State <i>In Vivo</i> NMR. <i>Analytical Chemistry</i> , 2018, 90, 7912-7921. | 6.5 | 46 |
| 8 | Lateral Diffusion of PEG-Lipid in Magnetically Aligned Bicelles Measured Using Stimulated Echo Pulsed Field Gradient ¹ H NMR. <i>Biophysical Journal</i> , 2005, 88, 255-268. | 0.5 | 44 |
| 9 | HR-MAS NMR Spectroscopy: A Practical Guide for Natural Samples. <i>Current Organic Chemistry</i> , 2013, 17, 3013-3031. | 1.6 | 44 |
| 10 | Interfacing digital microfluidics with high-field nuclear magnetic resonance spectroscopy. <i>Lab on a Chip</i> , 2016, 16, 4424-4435. | 6.0 | 42 |
| 11 | Direct Conversion of McDonald's Waste Cooking Oil into a Biodegradable High-Resolution 3D-Printing Resin. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1171-1177. | 6.7 | 42 |
| 12 | Development of an NMR microprobe procedure for high-throughput environmental metabolomics of <i>Daphnia magna</i> . <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 745-753. | 1.9 | 41 |
| 13 | Identification of aquatically available carbon from algae through solution-state NMR of whole ¹³ C-labelled cells. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 4357-4370. | 3.7 | 40 |
| 14 | Aqueous Photoreactions of Wood Smoke Brown Carbon. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1149-1160. | 2.7 | 39 |
| 15 | Comprehensive Multiphase NMR Spectroscopy of Intact ¹³ C-Labeled Seeds. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 107-115. | 5.2 | 38 |
| 16 | In-Phase Ultra High-Resolution <i>In Vivo</i> NMR. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6324-6328. | 13.8 | 35 |
| 17 | Comprehensive multiphase NMR: a promising technology to study plants in their native state. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 735-744. | 1.9 | 33 |
| 18 | From Spill to Sequestration: The Molecular Journey of Contamination via Comprehensive Multiphase NMR. <i>Environmental Science & Technology</i> , 2015, 49, 13983-13991. | 10.0 | 33 |

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|----|---|------|-----------|
| 19 | Rapid Chemical Reaction Monitoring by Digital Microfluidicsâ€NMR: Proof of Principle Towards an Automated Synthetic Discovery Platform. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15372-15376. | 13.8 | 33 |
| 20 | Assessing the potential of quantitative 2D HSQC NMR in ¹³ C enriched living organisms. <i>Journal of Biomolecular NMR</i> , 2019, 73, 31-42. | 2.8 | 33 |
| 21 | Aggregation of Microtubule Binding Repeats of Tau Protein is Promoted by Cu ²⁺ . <i>ACS Omega</i> , 2019, 4, 5356-5366. | 3.5 | 30 |
| 22 | Comprehensive Multiphase (CMP) NMR Monitoring of the Structural Changes and Molecular Flux Within a Growing Seed. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 6779-6788. | 5.2 | 26 |
| 23 | NMR assignment of the <i>in vivo</i> daphnia magna metabolome. <i>Analyst, The</i> , 2020, 145, 5787-5800. | 3.5 | 26 |
| 24 | Perspective: <i>in vivo</i> NMR â€“ a potentially powerful tool for environmental research. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 686-690. | 1.9 | 25 |
| 25 | PEG molecular weight and lateral diffusion of PEG-ylated lipids in magnetically aligned bicelles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 1805-1814. | 2.6 | 24 |
| 26 | Selective Amino Acid-Only <i>In Vivo</i> NMR: A Powerful Tool To Follow Stress Processes. <i>ACS Omega</i> , 2019, 4, 9017-9028. | 3.5 | 24 |
| 27 | Chlorines Are Not Evenly Substituted in Chlorinated Paraffins: A Predicted NMR Pattern Matching Framework for Isomeric Discrimination in Complex Contaminant Mixtures. <i>Environmental Science and Technology Letters</i> , 2020, 7, 496-503. | 8.7 | 23 |
| 28 | Water Diffusion in Bicelles and the Mixed Bicelle Model. <i>Langmuir</i> , 2009, 25, 380-390. | 3.5 | 21 |
| 29 | <i>In Vivo</i> Ultraslow MAS ² H/ ¹³ C NMR Emphasizes Metabolites in Dynamic Flux. <i>ACS Omega</i> , 2018, 3, 17023-17035. | 3.5 | 21 |
| 30 | <i>In vivo</i> comprehensive multiphase NMR. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 427-444. | 1.9 | 19 |
| 31 | Inverse or direct detect experiments and probes: Which are â€œbestâ€ for <i>in-vivo</i> NMR research of ¹³ C enriched organisms?. <i>Analytica Chimica Acta</i> , 2020, 1138, 168-180. | 5.4 | 18 |
| 32 | NMR spectroscopy of wastewater: A review, case study, and future potential. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2021, 126-127, 121-180. | 7.5 | 18 |
| 33 | Diffusion of PEG Confined between Lamellae of Negatively Magnetically Aligned Bicelles:â€% Pulsed Field Gradient ¹ H NMR Measurements. <i>Langmuir</i> , 2008, 24, 518-527. | 3.5 | 17 |
| 34 | Understanding the Fate of Environmental Chemicals Inside Living Organisms: NMR-Based ¹³ C Isotopic Suppression Selects Only the Molecule of Interest within ¹³ C-Enriched Organisms. <i>Analytical Chemistry</i> , 2019, 91, 15000-15008. | 6.5 | 16 |
| 35 | ExâVivo Comprehensive Multiphase NMR of whole organisms: A complementary tool to <i>in</i> âVivo NMR. <i>Analytica Chimica Acta: X</i> , 2020, 6, 100051. | 1.0 | 16 |
| 36 | Titrate over the Internet: An Open-Source Remote-Control Titration Unit for All Students. <i>Journal of Chemical Education</i> , 2021, 98, 1037-1042. | 2.3 | 16 |

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|----|--|-----|-----------|
| 37 | CASE (Computer-Assisted Structure Elucidation) Study for an Undergraduate Organic Chemistry Class. <i>Journal of Chemical Education</i> , 2020, 97, 855-860. | 2.3 | 15 |
| 38 | Improvements in lipid suppression for ¹ H NMR-based metabolomics: Applications to solution-state and HR-MAS NMR in natural and in vivo samples. <i>Magnetic Resonance in Chemistry</i> , 2019, 57, 69-81. | 1.9 | 14 |
| 39 | Combining the Maker Movement with Accessibility Needs in an Undergraduate Laboratory: A Cost-Effective Text-to-Speech Multipurpose, Universal Chemistry Sensor Hub (MUCSH) for Students with Disabilities. <i>Journal of Chemical Education</i> , 2018, 95, 2268-2272. | 2.3 | 13 |
| 40 | Rethinking a Timeless Titration Experimental Setup through Automation and Open-Source Robotic Technology: Making Titration Accessible for Students of All Abilities. <i>Journal of Chemical Education</i> , 2019, 96, 1497-1501. | 2.3 | 13 |
| 41 | 5-Axis CNC Micromilling for Rapid, Cheap, and Background-Free NMR Microcoils. <i>Analytical Chemistry</i> , 2020, 92, 15454-15462. | 6.5 | 13 |
| 42 | Influence of the Long-Chain/Short-Chain Amphiphile Ratio on Lateral Diffusion of PEG-Lipid in Magnetically Aligned Lipid Bilayers as Measured via Pulsed-Field-Gradient NMR. <i>Biophysical Journal</i> , 2005, 89, 1850-1860. | 0.5 | 12 |
| 43 | Flow-based <i>in vivo</i> NMR spectroscopy of small aquatic organisms. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 411-426. | 1.9 | 12 |
| 44 | ¹³ C quantification in heterogeneous multiphase natural samples by CMP-NMR using stepped decoupling. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7055-7065. | 3.7 | 11 |
| 45 | Focusing on the important through targeted NMR experiments: an example of selective ¹³ C ¹² C bond detection in complex mixtures. <i>Faraday Discussions</i> , 2019, 218, 372-394. | 3.2 | 10 |
| 46 | Comprehensive Multiphase NMR—A Powerful Tool to Understand and Monitor Molecular Processes during Biofuel Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17551-17564. | 6.7 | 10 |
| 47 | Targeting the Lowest Concentration of a Toxin That Induces a Detectable Metabolic Response in Living Organisms: Time-Resolved <i>In Vivo</i> 2D NMR during a Concentration Ramp. <i>Analytical Chemistry</i> , 2020, 92, 9856-9865. | 6.5 | 10 |
| 48 | Size of Bicelle Defects Probed via Diffusion Nuclear Magnetic Resonance of PEG. <i>Biophysical Journal</i> , 2009, 97, 796-805. | 0.5 | 9 |
| 49 | Exploring the Applications of Carbon-Detected NMR in Living and Dead Organisms Using a ¹³ C-Optimized Comprehensive Multiphase NMR Probe. <i>Analytical Chemistry</i> , 2022, 94, 8756-8765. | 6.5 | 8 |
| 50 | Comprehensive Multiphase NMR Probehead with Reduced Radiofrequency Heating Improves the Analysis of Living Organisms and Heat-Sensitive Samples. <i>Analytical Chemistry</i> , 2021, 93, 10326-10333. | 6.5 | 7 |
| 51 | Comparing the Potential of Helmholtz and Planar NMR Microcoils for Analysis of Intact Biological Samples. <i>Analytical Chemistry</i> , 2022, 94, 8523-8532. | 6.5 | 7 |
| 52 | 1D Spikelet Projections from Heteronuclear 2D NMR Data Permitting 1D Chemometrics While Preserving 2D Dispersion. <i>Metabolites</i> , 2019, 9, 16. | 2.9 | 6 |
| 53 | Exploring the Maker Culture in Chemistry: Making an Affordable Thermal Imaging System for Reaction Visualization. <i>Journal of Chemical Education</i> , 2020, 97, 3887-3891. | 2.3 | 6 |
| 54 | Expanding current applications and permitting the analysis of larger intact samples by means of a 7 mm CMP NMR probe. <i>Analyst</i> , 2021, 146, 4461-4472. | 3.5 | 6 |

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|----|--|-----|-----------|
| 55 | Evaluation of double-tuned single-sided planar microcoils for the analysis of small ¹³ C enriched biological samples using ¹ H- ¹³ C 2D heteronuclear correlation NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2022, 60, 386-397. | 1.9 | 6 |
| 56 | Rapid Chemical Reaction Monitoring by Digital Microfluidics-NMR: Proof of Principle Towards an Automated Synthetic Discovery Platform. <i>Angewandte Chemie</i> , 2019, 131, 15516-15520. | 2.0 | 3 |
| 57 | Evidence for substantial acetate presence in cutaneous earthworm mucus. <i>Journal of Soils and Sediments</i> , 2020, 20, 3627-3632. | 3.0 | 3 |
| 58 | In-Phase Ultra High-Resolution In Vivo NMR. <i>Angewandte Chemie</i> , 2017, 129, 6421-6425. | 2.0 | 3 |