

Gerald T Seidler

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,802
citations

257450

24
h-index

276875

41
g-index

63
all docs

63
docs citations

63
times ranked

2573
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | X-ray absorption spectroscopy of trivalent Eu, Gd, Tb, and Dy chlorides and oxychlorides. <i>Journal of Alloys and Compounds</i> , 2022, 897, 162629. | 5.5 | 4 |
| 2 | Iron redox analysis of silicate-based minerals and glasses using synchrotron X-ray absorption and laboratory X-ray emission spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2022, 577, 121326. | 3.1 | 0 |
| 3 | Conjugated Metal-Organic Macrocycles: Synthesis, Characterization, and Electrical Conductivity. <i>Journal of the American Chemical Society</i> , 2022, 144, 4515-4521. | 13.7 | 25 |
| 4 | Reactivity of a Chloride Decorated, Mixed Valent Ce ^{III/IV} ₃₈ Oxo Cluster. <i>Inorganic Chemistry</i> , 2022, 61, 193-205. | 4.0 | 6 |
| 5 | An exploration of benchtop X-ray emission spectroscopy for precise characterization of the sulfur redox state in cementitious materials. <i>X-Ray Spectrometry</i> , 2022, 51, 151-162. | 1.4 | 2 |
| 6 | Informed Chemical Classification of Organophosphorus Compounds via Unsupervised Machine Learning of X-ray Absorption Spectroscopy and X-ray Emission Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2022, 126, 4862-4872. | 2.5 | 7 |
| 7 | Characterizing Polyoxovanadate-Alkoxide Clusters Using Vanadium K-edge X-ray Absorption Spectroscopy. <i>Chemistry - A European Journal</i> , 2021, 27, 1592-1597. | 3.3 | 1 |
| 8 | Surface Functionalization of Black Phosphorus with Nitrenes: Identification of P=N Bonds by Using Isotopic Labeling. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9127-9134. | 13.8 | 21 |
| 9 | Surface Functionalization of Black Phosphorus with Nitrenes: Identification of P=N Bonds by Using Isotopic Labeling. <i>Angewandte Chemie</i> , 2021, 133, 9209-9216. | 2.0 | 0 |
| 10 | New Insights into the High-Performance Black Phosphorus Anode for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2101259. | 21.0 | 41 |
| 11 | Unsupervised machine learning for unbiased chemical classification in X-ray absorption spectroscopy and X-ray emission spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23586-23601. | 2.8 | 23 |
| 12 | Valence-to-core X-ray emission spectroscopy of vanadium oxide and lithiated vanadyl phosphate materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16332-16344. | 10.3 | 10 |
| 13 | Factors Defining the Intercalation Electrochemistry of CaFe ₂ O ₄ -Type Manganese Oxides. <i>Chemistry of Materials</i> , 2020, 32, 8203-8215. | 6.7 | 6 |
| 14 | Probing Sulfur Chemical and Electronic Structure with Experimental Observation and Quantitative Theoretical Prediction of K _L and Valence-to-Core K _L ² X-ray Emission Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5415-5434. | 2.5 | 30 |
| 15 | Spherically bent mica analyzers as universal dispersing elements for X-ray spectroscopy. <i>X-Ray Spectrometry</i> , 2020, 49, 493-501. | 1.4 | 1 |
| 16 | Fast and reversible zinc ion intercalation in Al-ion modified hydrated vanadate. <i>Nano Energy</i> , 2020, 70, 104519. | 16.0 | 188 |
| 17 | Structural engineering of hydrated vanadium oxide cathode by K ⁺ incorporation for high-capacity and long-cycling aqueous zinc ion batteries. <i>Energy Storage Materials</i> , 2020, 29, 9-16. | 18.0 | 139 |
| 18 | Resonant inelastic X-ray scattering using a miniature dispersive Rowland refocusing spectrometer. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 446-454. | 2.4 | 5 |

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|----|--|------|-----------|
| 19 | Laboratory-Based X-ray Absorption Spectroscopy on a Working Pouch Cell Battery at Industrially-Relevant Charging Rates. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2549-A2555. | 2.9 | 20 |
| 20 | V ₂ O ₅ “Conductive polymer nanocables with built-in local electric field derived from interfacial oxygen vacancies for high energy density supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17966-17973. | 10.3 | 53 |
| 21 | Vacuum formed temporary spherically and toroidally bent crystal analyzers for x-ray absorption and x-ray emission spectroscopy. <i>Review of Scientific Instruments</i> , 2019, 90, 013106. | 1.3 | 12 |
| 22 | Interface Engineering V ₂ O ₅ Nanofibers for High Energy and Durable Supercapacitors. <i>Small</i> , 2019, 15, e1901747. | 10.0 | 66 |
| 23 | An improved laboratory-based x-ray absorption fine structure and x-ray emission spectrometer for analytical applications in materials chemistry research. <i>Review of Scientific Instruments</i> , 2019, 90, 024106. | 1.3 | 70 |
| 24 | Tailoring Energy and Power Density through Controlling the Concentration of Oxygen Vacancies in V ₂ O ₅ /PEDOT Nanocable-Based Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16647-16655. | 8.0 | 57 |
| 25 | A mail-in and user facility for X-ray absorption near-edge structure: the CEI-XANES laboratory X-ray spectrometer at the University of Washington. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 2086-2093. | 2.4 | 14 |
| 26 | X-ray Emission Spectroscopy at X-ray Free Electron Lasers: Limits to Observation of the Classical Spectroscopic Response for Electronic Structure Analysis. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 441-446. | 4.6 | 8 |
| 27 | Nonlocal heat transport and improved target design for x-ray heating studies at x-ray free electron lasers. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 2 |
| 28 | Energy-Degeneracy-Driven Covalency in Actinide Bonding. <i>Journal of the American Chemical Society</i> , 2018, 140, 17977-17984. | 13.7 | 108 |
| 29 | A color x-ray camera for 2–6 keV using a mass produced back illuminated complementary metal oxide semiconductor sensor. <i>Review of Scientific Instruments</i> , 2018, 89, 093111. | 1.3 | 14 |
| 30 | Rapid Evolution of the Photosystem II Electronic Structure during Water Splitting. <i>Physical Review X</i> , 2018, 8, . | 8.9 | 23 |
| 31 | Probing Surface Defects of InP Quantum Dots Using Phosphorus K ₁ and K ₂ X-ray Emission Spectroscopy. <i>Chemistry of Materials</i> , 2018, 30, 6377-6388. | 6.7 | 70 |
| 32 | Sulfur Speciation in Biochars by Very High Resolution Benchtop K ₁ X-ray Emission Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5153-5161. | 2.5 | 24 |
| 33 | 4 ¹ : Invited Paper: Role of Phosphorus Oxidation in Controlling the Luminescent Properties of Indium Phosphide Quantum Dots. <i>Digest of Technical Papers SID International Symposium</i> , 2018, 49, 21-24. | 0.3 | 8 |
| 34 | Determination of Hexavalent Chromium Fractions in Plastics Using Laboratory-Based, High-Resolution X-ray Emission Spectroscopy. <i>Analytical Chemistry</i> , 2018, 90, 6587-6593. | 6.5 | 23 |
| 35 | The coordination chemistry of Cm ^{III} , Am ^{III} , and Ac ^{III} in nitrate solutions: an actinide L ₃ -edge EXAFS study. <i>Chemical Science</i> , 2018, 9, 7078-7090. | 7.4 | 40 |
| 36 | Aminophosphines as Versatile Precursors for the Synthesis of Metal Phosphide Nanocrystals. <i>Chemistry of Materials</i> , 2018, 30, 5373-5379. | 6.7 | 54 |

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|----|---|------|-----------|
| 37 | Robust optic alignment in a tilt-free implementation of the Rowland circle spectrometer. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 215, 8-15. | 1.7 | 20 |
| 38 | X-ray Emission Spectroscopy of Biomimetic Mn Coordination Complexes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2584-2589. | 4.6 | 31 |
| 39 | Double-ionization satellites in the x-ray emission spectrum of Ni metal. <i>Physical Review A</i> , 2017, 96, . | 2.5 | 10 |
| 40 | A compact dispersive refocusing Rowland circle X-ray emission spectrometer for laboratory, synchrotron, and XFEL applications. <i>Review of Scientific Instruments</i> , 2017, 88, 073904. | 1.3 | 40 |
| 41 | Warm dense crystallography. <i>Physical Review B</i> , 2016, 93, . | 3.2 | 10 |
| 42 | Benchtop Nonresonant X-ray Emission Spectroscopy: Coming Soon to Laboratories and XAS Beamlines Near You?. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012036. | 0.4 | 24 |
| 43 | X-ray Emission Spectroscopy of Mn Coordination Complexes Toward Interpreting the Electronic Structure of the Oxygen-Evolving Complex of Photosystem II. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3326-3333. | 3.1 | 24 |
| 44 | Note: A disposable x-ray camera based on mass produced complementary metal-oxide-semiconductor sensors and single-board computers. <i>Review of Scientific Instruments</i> , 2015, 86, 086107. | 1.3 | 7 |
| 45 | Direct Measurement of Acceptor Group Localization on Donor-acceptor Polymers Using Resonant Auger Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5570-5578. | 3.1 | 13 |
| 46 | Covalency in Metal-oxygen Multiple Bonds Evaluated Using Oxygen K-edge Spectroscopy and Electronic Structure Theory. <i>Journal of the American Chemical Society</i> , 2013, 135, 1864-1871. | 13.7 | 57 |
| 47 | Competing Effects of Fluorination on the Orientation of Aromatic and Aliphatic Phosphonic Acid Monolayers on Indium Tin Oxide. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15139-15147. | 3.1 | 40 |
| 48 | Theoretical treatments of the bound-free contribution and experimental best practice in X-ray Thomson scattering from warm dense matter. <i>Physics of Plasmas</i> , 2013, 20, . | 1.9 | 10 |
| 49 | Kinetic Modeling of the X-ray-Induced Damage to a Metalloprotein. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9161-9169. | 2.6 | 24 |
| 50 | Real-space Green's function calculations of Compton profiles. <i>Physical Review B</i> , 2012, 85, . | 3.2 | 19 |
| 51 | $\langle \text{electron delocalization and volume collapse in praseodymium metal. } \rangle$ <i>Physical Review B</i> , 2012, 85, . | 3.2 | 24 |
| 52 | Enhanced Lithium-Ion Intercalation Properties of V_2O_5 Xerogel Electrodes with Surface Defects. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4959-4965. | 3.1 | 96 |
| 53 | Experimental and Theoretical Comparison of the O K-Edge Nonresonant Inelastic X-ray Scattering and X-ray Absorption Spectra of NaReO_4 . <i>Journal of the American Chemical Society</i> , 2010, 132, 13914-13921. | 13.7 | 37 |
| 54 | Intermediate-range order in water ices: Nonresonant inelastic x-ray scattering measurements and real-space full multiple scattering calculations. <i>Physical Review B</i> , 2009, 79, . | 3.2 | 26 |

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|----|---|------|-----------|
| 55 | Reducing radiation damage in macromolecular crystals at synchrotron sources. Acta Crystallographica Section D: Biological Crystallography, 2009, 65, 366-374. | 2.5 | 16 |
| 56 | Local Electronic Structure of Dicarba-closo-dodecarboranes C ₂ B ₁₀ H ₁₂ . Journal of the American Chemical Society, 2008, 130, 925-932. | 13.7 | 50 |
| 57 | Effect of pore morphology on the electrochemical properties of electric double layer carbon cryogel supercapacitors. Journal of Applied Physics, 2008, 104, 014305. | 2.5 | 46 |
| 58 | EFFECT OF PORE MORPHOLOGY ON THE ELECTROCHEMICAL PROPERTIES OF ELECTRIC DOUBLE LAYER CARBON CRYOGEL SUPERCAPACITORS. , 2008, , . | | 0 |
| 59 | Effect of chlorine and chromium on sulfur solubility in Low-activity waste glass. International Journal of Applied Glass Science, 0, , . | 2.0 | 3 |