

Scott M Rosendahl

List of Publications by Year in descending order

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26
papers

674
citations

623188

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552369

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884
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Noninvasive metabolomic profiling of embryo culture media using Raman and near-infrared spectroscopy correlates with reproductive potential of embryos in women undergoing in vitro fertilization. <i>Fertility and Sterility</i> , 2007, 88, 1350-1357. | 0.5 | 255 |
| 2 | Electrochemical and infrared spectroscopy studies of 4-mercaptobenzoic acid SAMs on gold surfaces. <i>Electrochimica Acta</i> , 2008, 53, 6759-6767. | 2.6 | 52 |
| 3 | Coupled Electron/Proton Transfer Studies of Benzoquinone-Modified Monolayers. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2738-2745. | 1.5 | 40 |
| 4 | Dendritic Plasmonics for Mid-Infrared Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9497-9507. | 1.5 | 33 |
| 5 | Surface Enhanced Infrared Absorption Spectroscopy Studies of DMAP Adsorption on Gold Surfaces. <i>Langmuir</i> , 2009, 25, 2241-2247. | 1.6 | 30 |
| 6 | Superimposed Arrays of Nanoprisms for Multispectral Molecular Plasmonics. <i>ACS Photonics</i> , 2016, 3, 1723-1732. | 3.2 | 30 |
| 7 | Microsecond Resolved Infrared Spectroelectrochemistry Using Dual Frequency Comb IR Lasers. <i>Analytical Chemistry</i> , 2020, 92, 6241-6244. | 3.2 | 26 |
| 8 | Spectroscopy of human plasma for diagnosis of idiopathic Parkinson's disease. <i>Biomarkers in Medicine</i> , 2008, 2, 229-238. | 0.6 | 24 |
| 9 | Infrared chemical mapping of degradation products in cross-sections from paintings and painted objects. <i>Heritage Science</i> , 2019, 7, . | 1.0 | 22 |
| 10 | Origin of micro-scale heterogeneity in polymerisation of photo-activated resin composites. <i>Nature Communications</i> , 2020, 11, 1849. | 5.8 | 18 |
| 11 | Synchrotron Infrared Radiation for Electrochemical External Reflection Spectroscopy: A Case Study Using Ferrocyanide. <i>Analytical Chemistry</i> , 2011, 83, 3632-3639. | 3.2 | 16 |
| 12 | Step-Scan IR Spectroelectrochemistry with Ultramicroelectrodes: Nonsurface Enhanced Detection of Near Femtomole Quantities Using Synchrotron Radiation. <i>Analytical Chemistry</i> , 2013, 85, 8722-8727. | 3.2 | 16 |
| 13 | Exploiting Anisotropy of Plasmonic Nanostructures with Polarization Modulation Infrared Linear Dichroism Microscopy ($\mu\text{PM}\text{-}\text{RLD}$). <i>Advanced Optical Materials</i> , 2018, 6, 1701336. | 3.6 | 15 |
| 14 | Micromachined multigroove silicon ATR FT-IR internal reflection elements for chemical imaging of microfluidic devices. <i>Analytical Methods</i> , 2019, 11, 5776-5783. | 1.3 | 15 |
| 15 | Attenuated Total Reflection Fourier Transform Infrared (ATR FT-IR) Spectromicroscopy Using Synchrotron Radiation and Micromachined Silicon Wafers for Microfluidic Applications. <i>Applied Spectroscopy</i> , 2018, 72, 1781-1789. | 1.2 | 14 |
| 16 | Interface for time-resolved electrochemical infrared microspectroscopy using synchrotron infrared radiation. <i>Review of Scientific Instruments</i> , 2011, 82, 083105. | 0.6 | 8 |
| 17 | Spatiotemporal Mapping of Diffusion Layers Using Synchrotron Infrared Radiation. <i>Electrochimica Acta</i> , 2015, 162, 72-78. | 2.6 | 8 |
| 18 | Femtomole Infrared Spectroscopy at the Electrified Metal-Solution Interface. <i>Analytical Chemistry</i> , 2016, 88, 9351-9354. | 3.2 | 8 |

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|----|--|-----|-----------|
| 19 | Charge transfer and SEIRAS studies of 1,4-benzoquinone functionalized mixed monothiol/dithiol self-assembled monolayers. <i>Electrochimica Acta</i> , 2011, 56, 4361-4368. | 2.6 | 7 |
| 20 | Spatial Mapping of Methanol Oxidation Activity on a Monolithic Variable-Composition PtNi Alloy Using Synchrotron Infrared Microspectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23640-23647. | 1.5 | 7 |
| 21 | Review of Canadian Light Source facilities for biological applications. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 411, 17-21. | 0.6 | 7 |
| 22 | Quantitative analysis of electrochemical diffusion layers using synchrotron infrared radiation. <i>Journal of Electroanalytical Chemistry</i> , 2017, 800, 184-189. | 1.9 | 6 |
| 23 | Hansen Solubility Parameters Clarify the Role of the Primary and Secondary Hydroxyl Groups on the Remarkable Self-Assembly of 1:3,2:4-Dibenzylidene Sorbitol. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26455-26466. | 1.5 | 6 |
| 24 | Probing Heterogeneity in Attenuated Total Reflection Surface-Enhanced Infrared Absorption Spectroscopy (ATR-SEIRAS) Response with Synchrotron Infrared Microspectroscopy. <i>Applied Spectroscopy</i> , 2021, 75, 1198-1206. | 1.2 | 5 |
| 25 | Surface enhanced infrared spectroelectrochemistry using a microband electrode. <i>Canadian Journal of Chemistry</i> , 2022, 100, 495-499. | 0.6 | 4 |
| 26 | Optical Resonances of Chiral Metastructures in the Mid-Infrared Spectral Range. <i>Israel Journal of Chemistry</i> , 2023, 63, . | 1.0 | 2 |