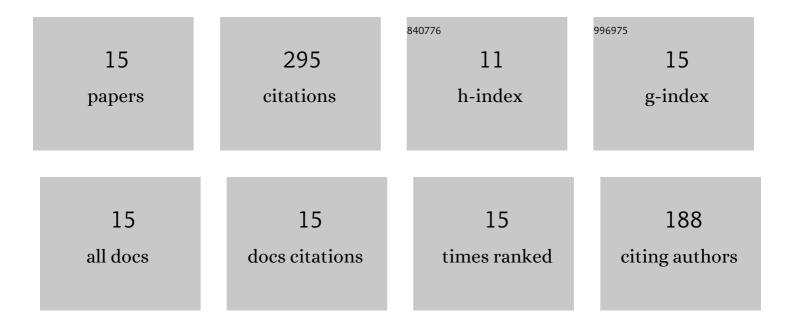
## **Richard M Cox**

List of Publications by Year in descending order

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| #  | Article  | IF                | CITATIONS       |
|----|--|-------------------|-----------------|
| 1  | Bond energies of ThO+ and ThC+: A guided ion beam and quantum chemical investigation of the reactions of thorium cation with O2 and CO. Journal of Chemical Physics, 2016, 144, 184309.  | 3.0               | 48              |
| 2  | Evaluation of the exothermicity of the chemi-ionization reaction Sm + O → SmO+ + eâ^'. Journal of<br>Chemical Physics, 2015, 142, 134307.  | 3.0               | 44              |
| 3  | Activation of CH <sub>4</sub> by Th <sup>+</sup> as Studied by Guided Ion Beam Mass Spectrometry and Quantum Chemistry. Inorganic Chemistry, 2015, 54, 3584-3599.  | 4.0               | 34              |
| 4  | Reactions of Th <sup>+</sup> + H <sub>2</sub> , D <sub>2</sub> , and HD Studied by Guided Ion Beam<br>Tandem Mass Spectrometry and Quantum Chemical Calculations. Journal of Physical Chemistry B, 2016,<br>120, 1601-1614.                                  | 2.6               | 29              |
| 5  | Guided ion beam and theoretical studies of the reactions of Re+, Os+, and Ir+ with CO. Journal of Chemical Physics, 2016, 145, 194305.   | 3.0               | 21              |
| 6  | Bond energy of ThN+: A guided ion beam and quantum chemical investigation of the reactions of thorium cation with N2 and NO. Journal of Chemical Physics, 2019, 151, 034304.   | 3.0               | 20              |
| 7  | Potential energy surface for the reaction Sm <sup>+</sup> + CO <sub>2</sub> → SmO <sup>+</sup> + CO:<br>guided ion beam and theoretical studies. Physical Chemistry Chemical Physics, 2017, 19, 11075-11088.   | 2.8               | 15              |
| 8  | On-Line Monitoring of Gas-Phase Molecular Iodine Using Raman and Fluorescence Spectroscopy Paired with Chemometric Analysis. Environmental Science & Technology, 2021, 55, 3898-3908.  | 10.0              | 15              |
| 9  | Gas-phase ion-molecule interactions in a collision reaction cell with triple quadrupole-inductively coupled plasma mass spectrometry: Investigations with N2O as the reaction gas. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 186, 106309.      | 2.9               | 15              |
| 10 | Activation of Water by Thorium Cation: A Guided Ion Beam and Quantum Chemical Study. Journal of the American Society for Mass Spectrometry, 2019, 30, 1835-1849.   | 2.8               | 13              |
| 11 | Lanthanides as Catalysts: Guided Ion Beam and Theoretical Studies of Sm <sup>+</sup> + COS. Journal of Physical Chemistry A, 2018, 122, 737-749.   | 2.5               | 12              |
| 12 | Microstructural characterization of cold-worked 316 stainless steel flux thimble tubes irradiated up<br>to 100 dpa in a commercial Pressurized Water Reactor. Journal of Nuclear Materials, 2020, 541, 152400.   | 2.7               | 11              |
| 13 | Thermochemical studies of reactions of Re+ with SO2 using guided ion beam experiments and theory.<br>Physical Chemistry Chemical Physics, 2020, 22, 3191-3203.   | 2.8               | 7               |
| 14 | <scp>Gasâ€Phase Ionâ€Molecule</scp> Interactions in a Collision Reaction Cell with<br><scp>ICPâ€MS</scp> / <scp>MS</scp> : Investigations with <scp>CO<sub>2</sub></scp> as the Reaction<br>Gas. Geostandards and Geoanalytical Research, 2022, 46, 387-399. | 3.1               | 6               |
| 15 | Activation of CO <sub>2</sub> by Actinide Cations (Th <sup>+</sup> , U <sup>+</sup> , Pu <sup>+</sup> ,) Tj ET   | Qq1 1 0.78<br>4.0 | 84314 rgBT<br>5 |