

# Ian R Gould

## List of Publications by Year in descending order

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36  
papers

1,201  
citations

394421

19  
h-index

361022

35  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of Bimolecular Photoinduced Electron-Transfer Reactions. <i>Accounts of Chemical Research</i> , 1996, 29, 522-528.	15.6	321
2	Nucleophile-Assisted Cleavage of Benzyltrialkylsilane Cation Radicals. <i>Journal of the American Chemical Society</i> , 1997, 119, 1876-1883.	13.7	117
3	Kinetics of Reductive N <sup>+</sup> O Bond Fragmentation: The Role of a Conical Intersection. <i>Journal of the American Chemical Society</i> , 2002, 124, 15225-15238.	13.7	83
4	Efficient photoinduced generation of radical cations in solvents of medium and low polarity. <i>Journal of the American Chemical Society</i> , 1991, 113, 3601-3602.	13.7	82
5	Intersystem Crossing in Charge-Transfer Excited States. <i>Journal of Physical Chemistry A</i> , 2003, 107, 3515-3524.	2.5	67
6	Organic functional group transformations in water at elevated temperature and pressure: Reversibility, reactivity, and mechanisms. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 104, 194-209.	3.9	42
7	The central role of ketones in reversible and irreversible hydrothermal organic functional group transformations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 98, 48-65.	3.9	38
8	Kinetics and Mechanisms of Dehydration of Secondary Alcohols Under Hydrothermal Conditions. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 821-832.	2.7	36
9	Barrierless Electron Transfer Bond Fragmentation Reactions. <i>Journal of the American Chemical Society</i> , 2004, 126, 14071-14078.	13.7	34
10	Resonance Raman analysis of charge-transfer reorganization energies in a covalent dicyanoethylene-aza-adamantane. <i>Chemical Physics Letters</i> , 1996, 258, 87-93.	2.6	30
11	Relating motivation and student outcomes in general organic chemistry. <i>Chemistry Education Research and Practice</i> , 2018, 19, 331-341.	2.5	28
12	Sphalerite is a geochemical catalyst for carbon-hydrogen bond activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11642-11645.	7.1	27
13	Radiationless Decay in Exciplexes with Variable Charge Transfer. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6782-6787.	2.6	25
14	Deamination reaction mechanisms of protonated amines under hydrothermal conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 113-128.	3.9	24
15	A Curve-Crossing Model for Oxidative Decarboxylation. Kinetics of Anilino Carboxylate Fragmentations. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10949-10956.	2.5	23
16	Organic Oxidations Using Geomimicry. <i>Journal of Organic Chemistry</i> , 2015, 80, 12159-12165.	3.2	21
17	Effects of iron-containing minerals on hydrothermal reactions of ketones. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 223, 107-126.	3.9	21
18	Photochemical Electron Transfer Initiated Oxidative Fragmentation of Aminopinacols. Factors Governing Reaction Rates and Quantum Efficiencies of C-C Bond Cleavage. <i>The Journal of Physical Chemistry</i> , 1995, 99, 3566-3573.	2.9	20

#	ARTICLE	IF	CITATIONS
19	Mechanisms of decarboxylation of phenylacetic acids and their sodium salts in water at high temperature and pressure. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 269, 597-621.	3.9	20
20	Hydrothermal Photochemistry as a Mechanistic Tool in Organic Geochemistry: The Chemistry of Dibenzyl Ketone. <i>Journal of Organic Chemistry</i> , 2014, 79, 7861-7871.	3.2	19
21	Production of Carboxylic Acids from Aldehydes under Hydrothermal Conditions: A Kinetics Study of Benzaldehyde. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 170-191.	2.7	18
22	Aminosilanes as two-electron donors: A technological application of radical cation chemistry. <i>Canadian Journal of Chemistry</i> , 2003, 81, 777-788.	1.1	16
23	Measuring student performance in general organic chemistry. <i>Chemistry Education Research and Practice</i> , 2015, 16, 168-178.	2.5	16
24	Mineral-assisted production of benzene under hydrothermal conditions: Insights from experimental studies on C 6 cyclic hydrocarbons. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 346, 21-27.	2.1	14
25	Selective hydrothermal reductions using geomimicry. <i>Green Chemistry</i> , 2019, 21, 4159-4168.	9.0	11
26	Quantifying the extent of amide and peptide bond synthesis across conditions relevant to geologic and planetary environments. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 300, 318-332.	3.9	11
27	Metastable equilibrium of substitution reactions among oxygen- and nitrogen-bearing organic compounds at hydrothermal conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 272, 93-104.	3.9	7
28	Kinetics and Mechanisms of Hydrothermal Ketonic Decarboxylation. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 2082-2095.	2.7	6
29	Earth as Organic Chemist. , 2019, , 415-446.		5
30	Understanding the Solvent Contribution to Chemical Reaction Barriers. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10490-10499.	2.5	4
31	Hydrothermal Experiments with Protonated Benzylamines Provide Predictions of Temperature-Dependent Deamination Rates for Geochemical Modeling. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1997-2012.	2.7	4
32	Hydrothermal One-Electron Oxidation of Carboxylic Acids in the Presence of Iron Oxide Minerals. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2715-2728.	2.7	4
33	Kinetic Determinations of Accurate Relative Oxidation Potentials of Amines with Reactive Radical Cations. <i>Photochemistry and Photobiology</i> , 2006, 82, 104.	2.5	3
34	Bulk gold catalyzes hydride transfer in the Cannizzaro and related reactions. <i>New Journal of Chemistry</i> , 2019, 43, 19137-19148.	2.8	2
35	Resonance Raman studies of phenylcyclopropane radical cations. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 233-241.	2.5	1
36	Resonance Raman studies of phenylcyclopropane radical cations. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 233-241.	2.5	1