

# Raphael Horvath

## List of Publications by Year in descending order

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43  
papers

1,252  
citations

304743

22  
h-index

361022

35  
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45  
all docs

45  
docs citations

45  
times ranked

1823  
citing authors

#	ARTICLE	IF	CITATIONS
1	Applying green chemistry to the photochemical route to artemisinin. <i>Nature Chemistry</i> , 2015, 7, 489-495.	13.6	140
2	Remote-controlled experiments with cloud chemistry. <i>Nature Chemistry</i> , 2015, 7, 1-5.	13.6	96
3	Understanding excited-state structure in metal polypyridyl complexes using resonance Raman excitation profiles, time-resolved resonance Raman spectroscopy and density functional theory. <i>Coordination Chemistry Reviews</i> , 2010, 254, 2505-2518.	18.8	72
4	Intraligand Charge-Transfer Excited States in Re(I) Complexes with Donor-Substituted Dipyridophenazine Ligands. <i>Inorganic Chemistry</i> , 2014, 53, 1339-1354.	4.0	61
5	Excited States of Ru(II) and Re(I) Bipyridyl Complexes Attached to Cyclotriphosphazenes: A Synthetic, Spectroscopic, and Computational Study. <i>Inorganic Chemistry</i> , 2010, 49, 4073-4083.	4.0	58
6	Red-Absorbing Cationic Acceptor Dyes for Photocathodes in Tandem Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16536-16546.	3.1	51
7	Complete Family of Mono-, Bi-, and Trinuclear Re <sup>I</sup> (CO) <sub>3</sub> Cl Complexes of the Bridging Polypyridyl Ligand 2,3,8,9,14,15-Hexamethyl-5,6,11,12,17,18-hexaazatrinaphthalene: Syn/Anti Isomer Separation, Characterization, and Photophysics. <i>Inorganic Chemistry</i> , 2011, 50, 6093-6106.	4.0	50
8	Dramatic Alteration of <sup>3</sup> ILCT Lifetimes Using Ancillary Ligands in [Re(L)(CO) <sub>3</sub> (phen-TPA)] <sup>+</sup> Complexes: An Integrated Spectroscopic and Theoretical Study. <i>Journal of the American Chemical Society</i> , 2018, 140, 4534-4542.	13.7	49
9	Photoaquation Mechanism of Hexacyanoferrate(II) Ions: Ultrafast 2D UV and Transient Visible and IR Spectroscopies. <i>Journal of the American Chemical Society</i> , 2017, 139, 7335-7347.	13.7	43
10	Dual-comb spectroscopy for high-temperature reaction kinetics. <i>Measurement Science and Technology</i> , 2020, 31, 055501.	2.6	43
11	Synthesis, Characterization, and Photophysics of Oxadiazole- and Diphenylaniline-Substituted Re(I) and Cu(I) Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 1304-1317.	4.0	34
12	Photocatalytic hydroxylation of arylboronic acids using continuous flow reactors. <i>RSC Advances</i> , 2015, 5, 6501-6504.	3.6	34
13	Excited state vibrational spectroscopy of metal complexes of dipyrido[3,2-a:2'â€²,3'â€²-c]phenazine. <i>Inorganica Chimica Acta</i> , 2011, 374, 10-18.	2.4	33
14	Vibrational spectroscopy as a probe of molecule-based devices. <i>Chemical Society Reviews</i> , 2012, 41, 1929-1946.	38.1	33
15	Pyridyl Gold(I) Alkynyls: A Synthetic, Structural, Spectroscopic, and Computational Study. <i>Organometallics</i> , 2010, 29, 6186-6195.	2.3	32
16	Thionated naphthalene diimides: tuneable chromophores for applications in photoactive dyads. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 752-764.	2.8	30
17	Toward an Iron(II) Spin-Crossover Grafted Phosphazene Polymer. <i>Inorganic Chemistry</i> , 2012, 51, 8307-8316.	4.0	29
18	Excited States of Triphenylamine-Substituted 2-Pyridyl-1,2,3-triazole Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 12238-12253.	4.0	28

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19	Spectroscopic Studies of Phosphazene Polymers Containing Photoluminescent Metal Complexes. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, n/a-n/a.	2.0	26
20	Re(I) Complexes of Substituted dppz: A Computational and Spectroscopic Study. <i>Inorganic Chemistry</i> , 2014, 53, 3126-3140.	4.0	26
21	Microsecond-Resolved Infrared Spectroscopy on Nonrepetitive Protein Reactions by Applying Caged Compounds and Quantum Cascade Laser Frequency Combs. <i>Analytical Chemistry</i> , 2021, 93, 6779-6783.	6.5	26
22	Monitoring the Formation and Reactivity of Organometallic Alkane and Fluoroalkane Complexes with Silanes and Xe Using Time-Resolved X-ray Absorption Fine Structure Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 11471-11480.	13.7	25
23	Can aliphatic anchoring groups be utilised with dyes for p-type dye sensitized solar cells?. <i>Dalton Transactions</i> , 2016, 45, 7708-7719.	3.3	24
24	Probing the excited state nature of coordination complexes with blended organic and inorganic chromophores using vibrational spectroscopy. <i>Coordination Chemistry Reviews</i> , 2016, 325, 41-58.	18.8	22
25	Excited-state spectroscopic investigations of multinuclear complexes based on [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> moieties connected to 2,2'-bipyridine and 2,2',6,6'-terpyridine ligands. <i>Dalton Transactions</i> , 2013, 42, 16527-33.	3.3	19
26	Dual Charge-Transfer in Rhenium(I) Thioether Substituted Hexaazaphthalene Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 13049-13060.	4.0	19
27	Long-Lived Charge Transfer Excited States in HBC-Polypyridyl Complex Hybrids. <i>Inorganic Chemistry</i> , 2016, 55, 4710-4719.	4.0	19
28	Alteration of Intraligand Donor-Acceptor Interactions Through Torsional Connectivity in Substituted Re-dppz Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 12967-12977.	4.0	16
29	Nature of Excited States of Ruthenium-Based Solar Cell Dyes in Solution: A Comprehensive Spectroscopic Study. <i>Inorganic Chemistry</i> , 2015, 54, 11697-11708.	4.0	15
30	QCL-Based Dual-Comb Spectrometer for Multi-Species Measurements at High Temperatures and High Pressures. <i>Sensors</i> , 2020, 20, 3602.	3.8	15
31	Probing Organometallic Reactions by Time-Resolved Infrared Spectroscopy in Solution and in the Solid State Using Quantum Cascade Lasers. <i>Applied Spectroscopy</i> , 2015, 69, 519-524.	2.2	12
32	Generation of Microsecond Charge-Separated Excited States in Rhenium(I) Diimine Complexes: Driving Force Is the Dominant Factor in Controlling Lifetime. <i>Inorganic Chemistry</i> , 2019, 58, 9785-9795.	4.0	11
33	Monitoring formaldehyde in a shock tube with a fast dual-comb spectrometer operating in the spectral range of 1740-1790 cm <sup>-1</sup> . <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	2.2	11
34	An iron(II) spin crossover grafted cyclotriphosphazene. <i>Polyhedron</i> , 2013, 55, 37-44.	2.2	10
35	Photochemistry of framework-supported M(diimine)(CO) <sub>3</sub> X complexes in three-dimensional lithium carboxylate metal-organic frameworks: monitoring the effect of framework cations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160033.	3.4	10
36	A combined time-resolved infrared and density functional theory study of the lowest excited states of 9-fluorenone and 2-naphthaldehyde. <i>Chemical Physics</i> , 2018, 512, 44-52.	1.9	9

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37	Competing Pathways in the Photochemistry of Ru(H) <sub>2</sub> (CO)(PPh <sub>3</sub> ) <sub>3</sub> . Organometallics, 2018, 37, 855-868.	2.3	8
38	A behavioural difference between an iron(II) grafted polyphosphazene and its small molecule cyclophosphazene analogue. Inorganic Chemistry Communication, 2013, 37, 158-161.	3.9	7
39	Vibrational Stark Spectroscopy of Fluorobenzene Using Quantum Cascade Laser Dual Frequency Combs. Applied Spectroscopy, 2020, 74, 347-356.	2.2	6
40	Understanding the Ground- and Excited-State Photophysics of Oxadiazole and Triarylamine Substituents in Copper and Rhenium Metal Complexes. , 2010, , .		0
41	Resonance Raman Spectroscopy Of Rhenium(I) Complexes With Sulfur-Containing Polypyridyl Ligands. , 2010, , .		0
42	QCL Dual-Comb Spectroscopy Matures for Applications. PhotonicsViews, 2021, 18, 36-39.	0.1	0
43	Development of Fast Frequency Comb Mid-Infrared Spectroscopy for Stopped Flow Applications. , 2021, , .		0