Mark G Humphrey

List of Publications by Citations

343 papers	11,136 citations	57 h-index	88 g-index
390 ext. papers	12,189 ext. citations	5.7 avg, IF	6.25 L-index

#	Paper	IF	Citations
343	Cobalt phosphide nanorods as an efficient electrocatalyst for the hydrogen evolution reaction. *Nano Energy*, **2014**, 9, 373-382	17.1	403
342	Organometallic Complexes in Nonlinear Optics I: Second-Order Nonlinearities. *Advances in Organometallic Chemistry*, **1998**, 42, 291-362	3.8	357
341	Nonlinear optical properties of transition metal acetylides and their derivatives. *Coordination Chemistry Reviews*, **2004**, 248, 725-756	23.2	349
340	A hydrothermal route to water-stable luminescent carbon dots as nanosensors for pH and temperature. *Carbon*, **2015**, 82, 87-95	10.4	312
339	Organometallic complexes for nonlinear optics. 30.1 electrochromic linear and nonlinear optical properties of alkynylbis(diphosphine)ruthenium complexes. *Journal of the American Chemical Society*, **2003**, 125, 602-10	16.4	189
338	Organometallic Complexes for Nonlinear Optics. 16.1 Second and Third Order Optical Nonlinearities of Octopolar Alkynylruthenium Complexes. *Journal of the American Chemical Society*, **1999**, 121, 1405-1406	16.4	162
337	Electrochemical switching of the cubic nonlinear optical properties of an aryldiethynyl-linked heterobimetallic complex between three distinct states. *Angewandte Chemie - International Edition*, **2006**, 45, 7376-9	16.4	157
336	Metal alkynyl complexes as switchable NLO systems. *Coordination Chemistry Reviews*, **2011**, 255, 2530-2541	23.2	155
335	Organometallic Complexes in Nonlinear Optics II: Third-Order Nonlinearities and Optical Limiting Studies. *Advances in Organometallic Chemistry*, **1999**, 43, 349-405	3.8	155
334	Organometallic Complexes for Nonlinear Optics. 17.1 Synthesis, Third-Order Optical Nonlinearities, and Two-Photon Absorption Cross Section of an Alkynylruthenium Dendrimer. *Organometallics*, **1999**, 18, 5195-5197	3.8	144
333	Tunable Carbon-Dot-Based Dual-Emission Fluorescent Nanohybrids for Ratiometric Optical Thermometry in Living Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 6621-8	9.5	139
332	Switching the cubic nonlinear optical properties of an electro-, halo-, and photochromic ruthenium alkynyl complex across six states. *Angewandte Chemie - International Edition*, **2009**, 48, 7867-70	16.4	134
331	Alkynyl compounds and nonlinear optics. *Journal of Organometallic Chemistry*, **2004**, 689, 3968-3981	2.3	124
330	Organometallic Complexes for Nonlinear Optics. 22.1 Quadratic and Cubic Hyperpolarizabilities of trans-Bis(bidentate phosphine)ruthenium Arylvinylidene and Arylalkynyl Complexes. *Organometallics*, **2001**, 20, 4664-4675	3.8	124
329	Organotransition Metal Complexes for Nonlinear Optics. *Advances in Organometallic Chemistry*, **2007**, 61-136	3.8	118
328	Recent advances in ultraviolet and deep-ultraviolet second-order nonlinear optical crystals. *Coordination Chemistry Reviews*, **2018**, 375, 459-488	23.2	115
327	Electrochemical, spectroelectrochemical, and molecular quadratic and cubic nonlinear optical properties of alkynylruthenium dendrimers. *Journal of the American Chemical Society*, **2006**, 128, 10819-32	16.4	111

326	Organometallic Complexes for Nonlinear Optics. 24. Reversible Electrochemical Switching of Nonlinear Absorption. *Journal of Physical Chemistry A*, **2001**, 105, 9625-9627	2.8	105
325	Organometallic Complexes for Nonlinear Optics. 3.1 Molecular Quadratic Hyperpolarizabilities of Ene-, Imine-, and Azo-Linked Ruthenium Acetylides: X-ray Crystal Structure of Ru((E)-4,4C?CC6H4CHCHC6H4NO2)(PPh3)2(C5H5). *Organometallics*, **1996**, 15, 1935-1941	3.8	105
324	Dispersion of the third-order nonlinear optical properties of an organometallic dendrimer(1). *Journal of the American Chemical Society*, **2004**, 126, 12234-5	16.4	104
323	Two-photon and three-photon absorption in an organometallic dendrimer. *Angewandte Chemie - International Edition*, **2007**, 46, 731-3	16.4	102
322	Organometallic Complexes for Nonlinear Optics. 8.1 Syntheses and Molecular Quadratic Hyperpolarizabilities of Systematically Varied (Triphenylphosphine)gold Arylacetylides: X-ray Crystal Structures of Au(C?CR)(PPh3) (R = 4-C6H4NO2, 4,4C6H4C6H4NO2). *Organometallics*, **1996**, 15, 5738-5745	3.8	98
321	Increased optical nonlinearities of graphene nanohybrids covalently functionalized by axially-coordinated porphyrins. *Carbon*, **2013**, 53, 327-338	10.4	94
320	Cyclopentadienyl-ruthenium and -osmium chemistry. *Journal of Organometallic Chemistry*, **1986**, 314, 213-225	2.3	94
319	Some more transition metal acetylides. *Australian Journal of Chemistry*, **1984**, 37, 1955	1.2	93
318	Modulation of Third-Order Nonlinear Optical Properties by Backbone Modification of Polymeric Pillared-Layer Heterometallic Clusters. *Advanced Materials*, **2008**, 20, 1870-1875	24	90
317	Organometallic complexes for nonlinear optics: Part 25. Quadratic and cubic hyperpolarizabilities of some dipolar and quadrupolar gold and ruthenium complexes. *Journal of Organometallic Chemistry*, **2002**, 642, 259-267	2.3	90
316	Organometallic Complexes for Nonlinear Optics. 2. Syntheses, Electrochemical Studies, Structural Characterization, and Computationally-Derived Molecular Quadratic Hyperpolarizabilities of Ruthenium .sigma.-Arylacetylides: X-ray Crystal Structures of Ru(C.tplbond.CPh)(PMe3)2(.eta.-C5H5) and Ru(C.tplbond.CC6H4NO2-4)(L)2(.eta.-C5H5) (L = PPh3, PMe3). *Organometallics*, **1995**, 14, 3970-3979	3.8	90
315	Organometallic complexes for nonlinear optics. 14. Syntheses and second-order nonlinear optical properties of ruthenium, nickel and gold acetylides of 1,3,5-triethynylbenzene: X-ray crystal structures of 1-(HC?C)-3,5-C6H3(trans-C?CRuCl(dppm)2)2 and 1,3,5-C6H3(C?CAu(PPh3))3. *Journal of Organometallic Chemistry*, **1997**, 544, 277-283	2.3	86
314	Third-order optical nonlinearities of oligomers, dendrimers and polymers derived from solution Z-scan studies. *Optical Materials*, **2003**, 21, 485-488	3.3	85
313	Organometallic Complexes for Nonlinear Optics. 11.1 Molecular Quadratic and Cubic Hyperpolarizabilities of Systematically Varied (Cyclopentadienyl)(triphenylphosphine)nickel Arylacetylides. *Organometallics*, **1997**, 16, 2631-2637	3.8	84
312	Independent switching of cubic nonlinear optical properties in a ruthenium alkynyl cruciform complex by employing protic and electrochemical stimuli(1). *Journal of the American Chemical Society*, **2007**, 129, 11882-3	16.4	82
311	Covalent functionalization of reduced graphene oxide with porphyrin by means of diazonium chemistry for nonlinear optical performance. *Scientific Reports*, **2016**, 6, 23325	4.9	81
310	Organometallic complexes for nonlinear optics.: Part 27. Syntheses and optical properties of some iron, ruthenium and osmium alkynyl complexes. *Inorganica Chimica Acta*, **2003**, 352, 9-18	2.7	77
309	Length-dependent convergence and saturation behavior of electrochemical, linear optical, quadratic nonlinear optical, and cubic nonlinear optical properties of dipolar alkynylruthenium complexes with oligo(phenyleneethynylene) bridges. *Journal of the American Chemical Society*, **2009**, 131, 10293-307	16.4	74

308	Organometallic Complexes for Nonlinear Optics. 45. Dispersion of the Third-Order Nonlinear Optical Properties of Triphenylamine-Cored Alkynylruthenium Dendrimers. *Advanced Materials*, **2009**, 21, 2318-2322	24	73
307	Cluster chemistry. *Journal of Organometallic Chemistry*, **1986**, 314, 311-322	2.3	73
306	Bonding of 1-Acetylide Ligands to Electron-Rich Ruthenium Centers:´ Can Electron-Withdrawing Ligands Induce Significant Metal-to-Ligand Back-Bonding?. *Organometallics*, **1997**, 16, 4004-4011	3.8	70
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304	Organometallic Complexes for Nonlinear Optics. 33.1Electrochemical Switching of the Third-Order Nonlinearity Observed by Simultaneous Femtosecond Degenerate Four-Wave Mixing and Pump Probe Measurements. *Journal of Physical Chemistry A*, **2003**, 107, 11264-11266	2.8	70
303	Cyclopentadienyl-ruthenium and -osmium chemistry. XXIII. Synthesis and reactions of some hydrido complexes containing ruthenium or osmium, and related chemistry. *Australian Journal of Chemistry*, **1984**, 37, 1747	1.2	69
302	Organometallic complexes for nonlinear optics. X. Molecular quadratic and cubic hyperpolarizabilities of systematically varied (cyclopentadienyl)bis(phosphine) ruthenium arylacetylides: X-ray crystal structure of Ru((E)-4,4?-C ?CC6H4CHC6H4NO2)(PPh3)2(C5H5). *Journal of Organometallic Chemistry*, **1997**, 549, 127-137	2.3	67
301	Convergent Synthesis of Alkynylbis(bidentate phosphine)ruthenium Dendrimers. *Organometallics*, **2003**, 22, 1402-1413	3.8	66
300	Group 8 metal alkynyl complexes for nonlinear optics. *Journal of Organometallic Chemistry*, **2014**, 751, 181-200	2.3	65
299	Bonding and Electron Delocalization in Ruthenium(III) Arylacetylide Radicals [trans-Cl(2-dppe)2RuC?C(4-C6H4X)]+ (X = NO2, C(O)H, C(O)Me, F, H, OMe, NMe2): Misleading Aspects of the ESR Anisotropy. *Organometallics*, **2009**, 28, 2253-2266	3.8	65
298	Organometallic complexes for nonlinear optics. 15. Molecular quadratic hyperpolarizabilities of trans-bis{bis(diphenylphosphino)methane}ruthenium aryl- and pyridyl-acetylides: X-ray crystal structure of trans-[Ru(2-C?CC5H3N-5-NO2)Cl(dppm)2]. *Journal of Organometallic Chemistry*, **1998**, 563, 137-146	2.3	64
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296	Electronic, Molecular Weight, Molecular Volume, and Financial Cost-Scaling and Comparison of Two-Photon Absorption Efficiency in Disparate Molecules (Organometallic Complexes for Nonlinear Optics. 48.) A Response to Comment on Organometallic Complexes for Nonlinear Optics. 45. Dispersion of the Third-Order Nonlinear Optical Properties of Triphenylamine-Cored [illegible] Magnitude.	24	62
295	Syntheses, Structure, and Molecular Cubic Hyperpolarizabilities of Systematically Varied Ethynylgold(I) Complexes. *Organometallics*, **2000**, 19, 2968-2974	3.8	62
294	Organometallic Complexes for Nonlinear Optics. 4. Cubic Hyperpolarizabilities of (Cyclopentadienyl)bis(phosphine)ruthenium .sigma.-Arylacetylides. *Organometallics*, **1995**, 14, 5493-5495	3.8	62
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292	Molecular Cubic Hyperpolarizabilities of Systematically Varied (Triphenylphosphane)gold-Arylalkynyl Complexes. *Angewandte Chemie International Edition in English*, **1997**, 36, 370-371		61
291	Facile hydrothermal synthesis and optical limiting properties of TiO 2 -reduced graphene oxide nanocomposites. *Carbon*, **2015**, 89, 130-141	10.4	60

290	Noninnocent Ligand Behavior in Diruthenium Complexes Containing a 1,3-Diethynylbenzene Bridge. *Organometallics*, **2009**, 28, 5266-5269	3.8	60
289	Cubic nonlinear optical properties of platinum-terminated polyynediyl chains. *Inorganic Chemistry*, **2008**, 47, 9946-57	5.1	60
288	Organometallic Complexes for Nonlinear Optics. 28.1 Dimensional Evolution of Quadratic and Cubic Optical Nonlinearities in Stilbenylethynylruthenium Complexes. *Organometallics*, **2002**, 21, 2024-2026	3.8	59
287	Syntheses and NLO properties of metal alkynyl dendrimers. *Coordination Chemistry Reviews*, **2011**, 255, 2025-2038	23.2	57
286	Organometallic complexes for nonlinear optics VI: syntheses of rigid-rod ruthenium acetylide complexes bearing strong acceptor ligands; X-ray crystal structures of trans-[Ru(C ? CC6H4NO2-4)2(dppm)2] and trans-[Ru(C?CC6H4C6H4NO2-4,4?)2(dpppm)2]. *Journal of Organometallic Chemistry*, **1996**, 523, 33-40	2.3	57
285	Organometallic complexes for non-linear optics VII. Cubic optical non-linearities of octahedral trans-bis{bis(diphenylphosphino)methane}ruthenium acetylide complexes; X-ray crystal structure of trans-[Ru(C?CPH)(4-C?CC6H4NO2)(dppm)2]. *Journal of Organometallic Chemistry*, **1996**, 526, 99-103	2.3	57
284	Syntheses and quadratic hyperpolarizabilities of some (pyridylalkynyl)metal complexes: crystal structures of [Ni{2-(CC)C5H3NNO2-5}(PPh3)(C5H5)], [Au{2-(CC)C5H3NNO2-5}(PPh3)] and [Au{2-(CC)C5H4N}(PPh3)] *Journal of the Chemical Society Dalton Transactions*, **1997**, 4167-4174		56
283	Nonlinear optical and two-photon absorption properties of octupolar tris(bipyridyl)metal complexes. *Journal of Physical Chemistry A*, **2007**, 111, 8980-5	2.8	56
282	Organometallic complexes for nonlinear optics. *Journal of Organometallic Chemistry*, **2003**, 670, 56-65	2.3	56
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279	Giant Optical Anisotropy in the UV-Transparent 2D Nonlinear Optical Material Sc(IO) (NO). *Angewandte Chemie - International Edition*, **2021**, 60, 3464-3468	16.4	54
278	Phase separation synthesis of trinickel monophosphide porous hollow nanospheres for efficient hydrogen evolution. *Journal of Materials Chemistry A*, **2016**, 4, 10925-10932	13	53
277	Organometallic complexes for non-linear optics V. *Journal of Organometallic Chemistry*, **1996**, 519, 229-235	2.3	53
276	Intramolecular Optical Electron Transfer in Mixed-Valent Dinuclear IronRuthenium Complexes Featuring a 1,4-Diethynylaryl Spacer. *Organometallics*, **2008**, 27, 1063-1072	3.8	52
275	Silicon Surface-Bound Redox-Active Conjugated Wires Derived From Mono- and Dinuclear Iron(II) and Ruthenium(II) Oligo(phenyleneethynylene) Complexes. *Advanced Materials*, **2008**, 20, 1952-1956	24	52
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273	A Rapid Convergent Approach to Organometallic Dendrimers:´Sterically Controlled Dendron Synthesis. *Organometallics*, **2002**, 21, 2353-2355	3.8	49

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271	Syntheses, Structural, Theoretical, and Nonlinear Optical Studies of Non-Interpenetrating Three-Dimensional Nest-Shaped-Cluster [MoOS3Cu3]-Based Coordination Polymers. *Crystal Growth and Design*, **2011**, 11, 100-109	3.5	47
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264	Mixed-metal cluster chemistry. 19. Crystallographic, spectroscopic, electrochemical, spectroelectrochemical, and theoretical studies of systematically varied tetrahedral group 6-iridium clusters. *Journal of the American Chemical Society*, **2002**, 124, 5139-53	16.4	40
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253	Organometallic complexes for nonlinear optics. *Journal of Organometallic Chemistry*, **2000**, 605, 184-192	2.3	35
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244	Mixed-metal cluster chemistry. Site-selective reactions of tungsten-iridium cluster CpWIr3(CO)11 with PPh3 and bidentate phosphines: x-ray crystal structures of CpWIr3(.mu.-dppe)(.mu.-CO)3(CO)6, CpWIr3(.mu.-dppm)(.mu.-CO)3(CO)6, and CpWIr3(.mu.-dppa)(.mu.-CO)3(CO)6. *Organometallics*, **1993**, 12, 3468-3473	3.8	32
243	Optical limiting properties of (reduced) graphene oxide covalently functionalized by coordination complexes. *Coordination Chemistry Reviews*, **2018**, 375, 489-513	23.2	31
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235	Record Multiphoton Absorption Cross-Sections by Dendrimer Organometalation. *Angewandte Chemie - International Edition*, **2016**, 55, 2387-91	16.4	29
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225	Mixed-metal cluster chemistry V syntheses and X-ray crystal structure of Cp2Mo2Ir2(-CO)(CO)5(CO)4. *Journal of Organometallic Chemistry*, **1997**, 535, 175-181	2.3	26
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