

# John P Selegue

## List of Publications by Year in descending order

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81  
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docs citations

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times ranked

4067  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Characterization of the Cytotoxic Mechanism of Multiwall Carbon Nanotubes and Nano-Onions on Human Skin Fibroblast. <i>Nano Letters</i> , 2005, 5, 2448-2464.	9.1	499
2	Thermogravimetric Analysis of the Oxidation of Multiwalled Carbon Nanotubes: Evidence for the Role of Defect Sites in Carbon Nanotube Chemistry. <i>Nano Letters</i> , 2002, 2, 615-619.	9.1	448
3	Synthesis and structure of [Ru(C3Ph2)(PMe3)2(Cp)][PF6], a cationic diphenylallenylidene complex. <i>Organometallics</i> , 1982, 1, 217-218.	2.3	289
4	High Resolution Capillary Electrophoresis of Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2002, 124, 3169-3174.	13.7	146
5	Benzyne Adds Across a Closed 5 <sup>+</sup> 6 Ring Fusion in C70: Evidence for Bond Delocalization in Fullerenes. <i>Journal of the American Chemical Society</i> , 1998, 120, 2337-2342.	13.7	109
6	Stable dimethyl, methyl, and unsubstituted vinylidene complexes. <i>Journal of the American Chemical Society</i> , 1978, 100, 7763-7765.	13.7	105
7	Electrochemical Study of Functionalized Carbon Nano-Onions for High-Performance Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15068-15075.	3.1	105
8	Structural characterization of alkyne and vinylidene isomers of [Ru(C2H2)(PMe2Ph)2(Cp)][BF4]. <i>Journal of the American Chemical Society</i> , 1992, 114, 5518-5523.	13.7	96
9	Synthesis and structure of a diiron divinylidene complex formed by oxidative carbon-carbon coupling. <i>Journal of the American Chemical Society</i> , 1987, 109, 910-911.	13.7	94
10	Metallacumulenes: from vinylidenes to metal polycarbides. <i>Coordination Chemistry Reviews</i> , 2004, 248, 1543-1563.	18.8	94
11	Controlled synthesis, efficient purification, and electrochemical characterization of arc-discharge carbon nano-onions. <i>Carbon</i> , 2014, 66, 272-284.	10.3	90
12	Preparation and Isolation of Three Isomeric C70 Isoxazolines: Strong Deshielding in the Polar Region of C70. <i>Journal of the American Chemical Society</i> , 1994, 116, 7044-7048.	13.7	88
13	Synthesis and structure of [Ru(CO)2(Cp)]2( $\mu$ -C <sub>2</sub> H <sub>2</sub> ): an ethynediyl complex formed during tungsten-catalyzed alkyne metathesis. <i>Journal of the American Chemical Society</i> , 1991, 113, 2316-2317.	13.7	80
14	Reactions of organoruthenium complex, [RuCl(PMe3)2(Cp)], with aliphatic alkynols leading to cationic vinylvinylidene and neutral enynyl complexes and reactions of the enynyls with heteroallenes. <i>Organometallics</i> , 1991, 10, 1972-1980.	2.3	74
15	Aspects of the hydrogenation of carbon disulfide by transition-metal cluster compounds. The reactions of carbon disulfide with hydridotriosmium-carbonyl clusters. <i>Journal of the American Chemical Society</i> , 1981, 103, 546-555.	13.7	73
16	Preparation and structure of [(Me3CO)3W( $\mu$ -C-Ru(CO)2(Cp))], a heteronuclear, $\mu$ -2-carbide complex. <i>Journal of the American Chemical Society</i> , 1987, 109, 4731-4733.	13.7	73
17	Efficient preparative separation of C60 and C70. Gel permeation chromatography of fullerenes using 100% toluene as mobile phase. <i>Journal of Organic Chemistry</i> , 1992, 57, 1924-1926.	3.2	72
18	Separation and Characterization of Single-Walled and Multiwalled Carbon Nanotubes by Using Flow Field-Flow Fractionation. <i>Analytical Chemistry</i> , 2002, 74, 4774-4780.	6.5	72

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19	Metallacumulenes: a diruthenium vinylidene-alkylidene complex from the apparent dimerization of cyclopentadienylbis(triphenylphosphine)(3-methyl-1,2-butadienylidene)ruthenium hexafluorophosphate ([CpRu(C:C:CMe <sub>2</sub> )(PPh <sub>3</sub> ) <sub>2</sub> ][PF <sub>6</sub> ]). <i>Journal of the American Chemical Society</i> , 1983, 105, 5921-5923.	13.7	70
20	The First Structurally Characterized Homofullerene (Fulleroid). <i>Journal of the American Chemical Society</i> , 1999, 121, 7971-7972.	13.7	62
21	Cationic vinylidene complexes. Preparation and structural characterization of (η <sup>5</sup> -cyclopentadienyl)(2-methyl-4,5-bis(diphenylphosphino)-2-penten-3-yl)iron (II). A base-induced interligand reaction in a vinylidene complex. <i>Journal of the American Chemical Society</i> , 1979, 101, 7232-7238.	13.7	60
22	Synthesis, structure and reactivity of dicarbonyl(cyclopentadienyl)(dibenzothiophene)iron(1+) tetrafluoroborate and related S-bonded thiophene complexes. <i>Inorganic Chemistry</i> , 1987, 26, 3424-3426.	4.0	59
23	Synthesis and structure of a tungsten η <sup>3</sup> -enynyl complex resulting from facile alkynyl-vinylidene coupling. <i>Organometallics</i> , 1991, 10, 3421-3423.	2.3	56
24	Syntheses and structures of two trifluoroacetate-trapped derivatives of a ruthenium butatrienylidene complex. <i>Organometallics</i> , 1993, 12, 616-617.	2.3	54
25	Mechanochemical Treatment Facilitates Two-Step Oxidative Depolymerization of Kraft Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5990-5998.	6.7	47
26	Structure and reactivity of [TiRu(CO) <sub>2</sub> (C <sub>5</sub> H <sub>5</sub> )(NMe <sub>2</sub> ) <sub>3</sub> ]: a direct early-late transition metal bond formed by amine elimination. <i>Journal of the American Chemical Society</i> , 1985, 107, 5818-5820.	13.7	46
27	Facile interconversions of alkyne and vinylidene ligands on divalent molybdenum and tungsten. <i>Organometallics</i> , 1988, 7, 2248-2250.	2.3	45
28	More examples of the 15-crown-5...H <sub>2</sub> O...M...OH <sub>2</sub> ...15-crown-5 motif, M = Al <sup>3+</sup> , Cr <sup>3+</sup> and Pd <sup>2+</sup> . <i>Acta Crystallographica Section B: Structural Science</i> , 2010, 66, 213-221.	1.8	44
29	Electrophilic attack on a metal alkynyl by carbon disulfide: preparation and structure of [Fe(C <sub>2</sub> MeCS <sub>2</sub> Me)(dppe)(Cp)] <sup>+</sup> .MeOH, a cationic vinylidene complex. <i>Journal of the American Chemical Society</i> , 1982, 104, 119-124.	13.7	43
30	Synthesis and structure of [(NMe <sub>2</sub> ) <sub>3</sub> TiFe(CO) <sub>2</sub> (Cp)]: a stable iron-titanium bond. <i>Organometallics</i> , 1987, 6, 1812-1815.	2.3	41
31	Ruthenium-tungsten and iron-tungsten complexes with ethynyl and ethynediyl bridges. <i>Journal of the American Chemical Society</i> , 1990, 112, 6414-6416.	13.7	41
32	Early-late transition metal bonds: ruthenium-titanium compounds with aryloxy ligands. <i>Organometallics</i> , 1989, 8, 2153-2158.	2.3	40
33	Stepwise reduction of an ethynyl-iron complex to a neopentylidene complex. <i>Journal of the American Chemical Society</i> , 1980, 102, 2455-2456.	13.7	39
34	Impact of Flue Gas Contaminants on Monoethanolamine Thermal Degradation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 553-563.	3.7	35
35	Ternary composites of delaminated-MnO <sub>2</sub> /PDDA/functionalized-CNOs for high-capacity supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20367-20373.	10.3	35
36	Reactions of aryl isocyanates with hydridotriosmium carbonyl cluster compounds. <i>Inorganic Chemistry</i> , 1981, 20, 1242-1247.	4.0	34

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37	Bis-tridentate N-Heterocyclic Carbene Ru(II) Complexes are Promising New Agents for Photodynamic Therapy. <i>Inorganic Chemistry</i> , 2020, 59, 8882-8892.	4.0	34
38	Thermal degradation of amino acid salts in CO <sub>2</sub> capture. <i>International Journal of Greenhouse Gas Control</i> , 2013, 19, 243-250.	4.6	30
39	Monitoring the Growth of Polyoxomolybdate Nanoparticles in Suspension by Flow Field-Flow Fractionation. <i>Journal of the American Chemical Society</i> , 2005, 127, 4166-4167.	13.7	29
40	On the structural effect of the bridging hydride ligand on a metal-metal bond in a trinuclear cluster. the crystal and molecular structures of $(\eta^4\text{-H})(\eta^4\text{-S}_2\text{CH})\text{Os}_3(\text{CO})_{10}$ and $(\eta^4\text{-H})(\eta^4\text{-S}_2\text{CH})\text{Os}_3(\text{CO})_9[\text{PP}(\text{CH}_3)_2\text{C}_6\text{H}_5]$ . <i>Journal of Organometallic Chemistry</i> , 1980, 195, 223-238.	2.3	26
41	Cluster building on a bicarbide fragment: synthesis and structure of $[\text{Fe}_2\text{Ru}_2(\mu\text{-C}_4\text{tptbond.C})(\mu\text{-CO})(\text{CO})_8(\eta\text{-C}_5\text{H}_5)_2]$ . <i>Organometallics</i> , 1992, 11, 2704-2708.	2.3	26
42	Convenient syntheses of $[\text{RuCl}(\text{CO})_2(\text{Cp})]$ and $[\text{OsCl}(\text{CO})_2(\text{Cp})]$ . <i>Journal of Organometallic Chemistry</i> , 1994, 469, 107-110.	1.8	22
43	C,O-Dialkylation of Meldrum's Acid: Synthesis and Reactivity of 1,3,7,7-Tetramethyl-4H,10H-6,8,9-trioxa-2-thiabenz[f]azulen-5-one. <i>Journal of Organic Chemistry</i> , 2003, 68, 7455-7459.	3.2	22
44	Hydrogenation and degradation of carbon disulfide by organometallic cluster hydride complexes. Reaction of carbon disulfide with $(\mu\text{-dihydro})\text{nonacarbonyl}[\text{dimethylphenylphosphine}]_{\text{triosmium}}$ . <i>Journal of the American Chemical Society</i> , 1979, 101, 5862-5863.	13.7	21
45	A Cyclopropenylidene Approach to Tricarbide Complexes: Synthesis and Structure of $[\{\text{Fe}(\text{CO})_2(\text{Cp})\}_3(\mu\text{-C}_3)][\text{SbF}_6]$ . <i>Journal of the American Chemical Society</i> , 1995, 117, 7005-7006.	13.7	21
46	Synthesis, Characterization, and Structure of Cyclopenta[c]thiophenes and Their Manganese Complexes. <i>Journal of the American Chemical Society</i> , 2005, 127, 15010-15011.	13.7	21
47	Preparation, structure, and reactivity of $[\text{Fe}\{\text{CH}(\text{PPh}_2)_3\}(\text{C}_5\text{H}_5)][\text{PF}_6]$ , a monometallic, $\eta^3$ complex of tris(diphenylphosphino)methane. <i>Organometallics</i> , 1985, 4, 798-800.	2.3	19
48	The cyclo-C <sub>3</sub> ligand: trimetallic cyclopropenium complexes of Group 6-8 metals, including the X-ray crystal structure of $[\{\text{Fe}(\text{CO})_2(\text{Cp})\}_3(\eta^3\text{-C}_3)][\text{SbF}_6]$ . <i>Journal of Organometallic Chemistry</i> , 1999, 578, 133-143.	1.8	19
49	Stereochemical Inversion of a Coordinated, Curved Hydrocarbon: Syntheses and Structures of exo- and endo- $[\text{Ru}(\eta^6\text{-fluoradene})(\eta^5\text{-C}_5\text{Me}_5)][\text{CF}_3\text{SO}_3]$ . <i>Journal of the American Chemical Society</i> , 2000, 122, 3973-3974.	13.7	19
50	Synthesis and Characterization of a 1,2-Dibenzoylruthenocene and a Derived Pyridazine. <i>Organometallics</i> , 1998, 17, 3390-3393.	2.3	18
51	A Cyclopropenylidene Approach to Tricarbide Complexes: Synthesis and Structure of $[\text{M}(\text{CO})_5(\eta^3\text{-C}_3(\text{OCH}_2\text{CH}_3))\text{Fe}(\text{CO})_2(\text{Cp})]$ (M = Cr, Mo, W). <i>Organometallics</i> , 1996, 15, 4664-4666.	2.3	16
52	Synthesis and Properties of Ferrocenyl Allenylidene Complexes: X-ray Structure of $[\text{Ru}(\eta^5\text{-C}_5\text{H}_5)(\eta^5\text{-C}_5\text{H}_5)(\text{C}_3\text{H}_3\text{CH}_2\text{CH}_2\text{C}_6\text{H}_5)][\text{PF}_6]\cdot\text{CH}_2\text{Cl}_2$ . <i>Organometallics</i> , 2010, 29, 1199-1209.	2.3	16
53	Reactions of $\alpha,\beta$ -unsaturated imines with di- $\mu$ -hydro-decacarbonyltriosmium including the dehydrogenation of an isopropyl group. <i>Inorganic Chemistry</i> , 1980, 19, 1795-1801.	4.0	14
54	The partial hydrogenation of small unsaturated molecules by osmium cluster compounds. The reaction of diisopropylcarbodiimide with $\text{H}_2\text{Os}_3(\text{CO})_{10}$ . <i>Journal of Organometallic Chemistry</i> , 1981, 213, 259-270.	1.8	14

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55	Cleavage of metal-metal bonds in heteronuclear clusters. Reactions of Os <sub>3</sub> (μ <sub>3</sub> -S)(μ <sub>3</sub> -η <sup>2</sup> -SCH <sub>2</sub> )(CO) <sub>8</sub> (PMe <sub>2</sub> Ph) with hydrochloric acid and trimethyl phosphite. <i>Organometallics</i> , 1982, 1, 240-245.	2.3	14
56	6-Phenyl-2,4,6-trioxohexanoic acid. <i>Journal of Organic Chemistry</i> , 1991, 56, 4067-4070.	3.2	14
57	Synthesis, characterization and crystal structures of boron-containing intermediates in the reductive amination of ferrocenecarboxaldehyde to a bis(ferrocenylmethyl) amine. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 791-800.	1.8	13
58	Reactions of imines with di-μ-hydro-decacarbonyltriosmium. Competitive addition and abstraction of hydrogen atoms to and from an iminyl group. <i>Inorganic Chemistry</i> , 1980, 19, 1791-1795.	4.0	12
59	Preparation and structure of [Cr(η <sup>6</sup> -C <sub>8</sub> H <sub>6</sub> S)(CO) <sub>3</sub> ]: the first transition metal complex of benzo[3,4-c]thiophene. <i>Journal of the American Chemical Society</i> , 1993, 115, 6448-6449.	13.7	12
60	Muon investigations of fullereryl radicals. <i>Hyperfine Interactions</i> , 1994, 86, 817-824.	0.5	12
61	Thermal Degradation Comparison of Amino Acid Salts, Alkanolamines and Diamines in CO <sub>2</sub> Capture. <i>Energy Procedia</i> , 2014, 63, 1882-1889.	1.8	12
62	The synthesis and characterization of 1-formyl-2-acylcyclopentadienylthallium compounds. <i>Journal of Organometallic Chemistry</i> , 2002, 642, 268-274.	1.8	11
63	The elusive [Ni(H <sub>2</sub> O) <sub>2</sub> (15-crown-5)] <sup>2+</sup> cation and related co-crystals of nickel(II) hydrates and 15-crown-5. <i>Acta Crystallographica Section B: Structural Science</i> , 2008, 64, 725-737.	1.8	11
64	Preparation and structure of [Zr{Mo(CO) <sub>3</sub> (C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> {N(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> } <sub>2</sub> {NH(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> } <sub>2</sub> } <sub>2</sub> ] from a double amine elimination reaction. <i>Organometallics</i> , 1984, 3, 1922-1924.	2.3	9
65	A re-investigation of the reaction of [RuCl <sub>2</sub> (CO) <sub>3</sub> ] <sub>2</sub> with C <sub>5</sub> H <sub>5</sub> (Me <sub>3</sub> Si) X-ray structure determination of [Ru(CO) <sub>3</sub> (η <sup>5</sup> -C <sub>5</sub> H <sub>5</sub> )] <sub>2</sub> [fac-RuCl <sub>3</sub> (CO) <sub>3</sub> ]. <i>Journal of Organometallic Chemistry</i> , 1996, 518, 197-202.	1.8	9
66	Two fluoradene derivatives: pseudosymmetry, eccentric ellipsoids and a phase transition. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 507-516.	1.8	8
67	Biological Investigations of Ru(II) Complexes with Diverse $\beta$ -diketone Ligands. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 3611-3621.	2.0	8
68	Ruthenocene 1,2-Dicarboxylic Acid, Carboxylic Anhydride, and Acid Chloride: A Facile Route to Metallocene-Fused Acenequinones. <i>Organometallics</i> , 2011, 30, 3254-3256.	2.3	7
69	Morphology Control in the Hydrothermal Synthesis of FeS Nanoplatelets. <i>Crystal Growth and Design</i> , 2020, 20, 5728-5735.	3.0	7
70	Stereochemically nonrigid molybdenum alkyne complexes studied by 2-dimensional NMR spectroscopy. <i>Organometallics</i> , 1984, 3, 499-501.	2.3	6
71	Highly polarized ruthenium alkynyls with nitrothienyl substituents. <i>Inorganica Chimica Acta</i> , 2002, 334, 219-224.	2.4	6
72	An Investigation of the Partitioning of Dissociated H <sub>2</sub> and D <sub>2</sub> on Activated Nickel Catalysts. <i>Catalysis Letters</i> , 2013, 143, 1368-1373.	2.6	6

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73	Permanganate Oxidation of DNA Nucleotides: An Introductory Redox Laboratory Framed as a Murder Mystery. <i>Journal of Chemical Education</i> , 2018, 95, 1840-1847.	2.3	6
74	Preparation and Structure of 3,4,8,9-Tetrachloro-2,5,7,10-tetrahydro[1,6]dithiepine. <i>Heterocycles</i> , 2002, 57, 2373.	0.7	5
75	Activation of small molecules by transition metal cluster compounds. Oxidative cleavage of a metal-metal bond by HCl in an osmium cluster compound. <i>Journal of Organometallic Chemistry</i> , 1980, 193, C7-C12.	1.8	4
76	Linear and spiral forms of longitudinal cuts in graphitized N-doped multiwalled carbon nanotubes (g-N-MWCNTs). <i>Journal of Physics Condensed Matter</i> , 2010, 22, 334219.	1.8	4
77	Isotopic Apportioning of Hydrogen/Deuterium on the Surface of an Activated Iron Carbide Catalyst. <i>Catalysis Letters</i> , 2015, 145, 1683-1690.	2.6	4
78	Experimental measure of metal-alkynyl electronic structure interactions by photoelectron spectroscopy: $(\eta^5\text{-C}_5\text{H}_5)\text{Ru}(\text{CO})_2\text{CMe}$ and $[(\eta^5\text{-C}_5\text{H}_5)\text{Ru}(\text{CO})_2]_2(\eta^4\text{-C}_6\text{C})$ . <i>Polyhedron</i> , 2015, 86, 141-150.	2.2	4
79	Avobenzene incorporation in a diverse range of Ru scaffolds produces potent potential antineoplastic agents. <i>Dalton Transactions</i> , 2020, 49, 12161-12167.	3.3	4
80	Surface functional group investigation of oxidized, nanodiamond-derived carbon nano-onions. <i>Materials Today Communications</i> , 2021, 26, 101966.	1.9	2
81	Efficient preparative separation of C60 and C70. Gel permeation chromatography of fullerenes using 100% toluene as mobile phase. [Erratum to document cited in CA116(14):142617u]. <i>Journal of Organic Chemistry</i> , 1993, 58, 4508-4508.	3.2	1