

# Karl S Coleman

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94  
papers

4,738  
citations

34  
h-index

68  
g-index

104  
ext. papers

5,080  
ext. citations

6.4  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
94	A Statistical Approach to Raman Analysis of Graphene-Related Materials: Implications for Quality Control. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 11229-11239	5.6	3
93	Carbon Nanotubes: Electronic Structure and Spectroscopy <b>2019</b> , 205-218		3
92	Controlled Structure Evolution of Graphene Networks in Polymer Composites. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1524-1531	9.6	20
91	Gram-scale production of nitrogen doped graphene using a 1,3-dipolar organic precursor and its utilisation as a stable, metal free oxygen evolution reaction catalyst. <i>Chemical Communications</i> , <b>2017</b> , 53, 7748-7751	5.8	6
90	Formation of 3D graphene foams on soft templated metal monoliths. <i>Nanoscale</i> , <b>2016</b> , 8, 13303-10	7.7	20
89	Extrinsic Wrinkling and Single Exfoliated Sheets of Graphene Oxide in Polymer Composites. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1698-1704	9.6	20
88	Distortion of Chain Conformation and Reduced Entanglement in Polymer Graphene Oxide Nanocomposites. <i>ACS Macro Letters</i> , <b>2016</b> , 5, 430-434	6.6	30
87	Sensing properties of light-emitting single walled carbon nanotubes prepared via click chemistry of ylides bound to the nanotube surface. <i>RSC Advances</i> , <b>2015</b> , 5, 36865-36873	3.7	8
86	Graphene oxide nanocapsules within silanized hydrogels suitable for electrochemical pseudocapacitors. <i>Chemical Communications</i> , <b>2015</b> , 51, 10345-8	5.8	2
85	Exploring the alignment of carbon nanotubes dispersed in a liquid crystal matrix using coplanar electrodes. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 125303	2.5	20
84	Platinum(II)-Coordinated Pyridine-Functionalized Single-Wall Carbon Nanotubes and Electron Transport in Their Films. <i>ChemNanoMat</i> , <b>2015</b> , 1, 353-358	3.5	4
83	A manufacturing perspective on graphene dispersions. <i>Current Opinion in Colloid and Interface Science</i> , <b>2015</b> , 20, 367-382	7.6	249
82	A theoretical and experimental exploration of the mechanism of microwave assisted 1,3-dipolar cycloaddition of pyridinium ylides to single walled carbon nanotubes. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 145, 99-107	4.4	5
81	Ester-functionalized single-walled carbon nanotubes via addition of haloformates. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 5190-5198	4.3	10
80	Synthesis and characterization of a substituted indolizine and investigation of its photoluminescence quenching via electron deficient nitroaromatics. <i>Arkivoc</i> , <b>2014</b> , 2014, 362-371	0.9	8
79	Graphene film growth on polycrystalline metals. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 23-30	24.3	117
78	Graphene synthesis: relationship to applications. <i>Nanoscale</i> , <b>2013</b> , 5, 38-51	7.7	533

77	Tungstate sharpening: a versatile method for extending the profile of ultra sharp tungsten probes. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 035107	1.7	5
76	Synthesis and Characterization of Molecularly-Bridged Single-Walled Carbon Nanotubes and Electrical Properties of Their Films. <i>Science of Advanced Materials</i> , <b>2013</b> , 5, 1967-1973	2.3	5
75	Nanotubes. <i>Annual Reports on the Progress of Chemistry Section A</i> , <b>2012</b> , 108, 478		4
74	Probing the selectivity of azomethine imine cycloaddition to single-walled carbon nanotubes by resonance Raman spectroscopy. <i>Chemistry - an Asian Journal</i> , <b>2012</b> , 7, 2925-30	4.5	9
73	Unweaving the rainbow: a review of the relationship between single-walled carbon nanotube molecular structures and their chemical reactivity. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 4409-29	58.5	105
72	Formylation of single-walled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 2929-33	1.3	3
71	Heterogenised N-heterocyclic carbene complexes: synthesis, characterisation and application for hydroformylation and C-C bond formation reactions. <i>Dalton Transactions</i> , <b>2011</b> , 40, 661-72	4.3	39
70	Nanotubes. <i>Annual Reports on the Progress of Chemistry Section A</i> , <b>2011</b> , 107, 490		
69	Simple and scalable route for the Bottom-up synthesis of few-layer graphene platelets and thin films. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3378		48
68	The superiority of air oxidation over liquid-phase oxidative treatment in the purification of carbon nanotubes. <i>Carbon</i> , <b>2011</b> , 49, 3031-3038	10.4	34
67	Nanotubes. <i>Annual Reports on the Progress of Chemistry Section A</i> , <b>2010</b> , 106, 376		
66	Pyridine-functionalized single-walled carbon nanotubes as gelators for poly(acrylic acid) hydrogels. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15814-9	16.4	74
65	Synthesis, Structure, and Temperature-Dependent Dynamics of Neutral Palladium Allyl Complexes of Annulated Diaminocarbenes and Their Catalytic Application for C=C and C-N Bond Formation Reactions. <i>Organometallics</i> , <b>2010</b> , 29, 4858-4870	3.8	32
64	Routes to Ruthenium Fluoro Cations of the Type [RuL <sub>2</sub> (CO) <sub>n</sub> F] <sup>+</sup> (n = 2,3; L = PR <sub>3</sub> , NHC): A Play-Off between Solvent, L and Weakly Coordinating Anion. <i>European Journal of Inorganic Chemistry</i> , <b>2010</b> , 2010, 4130-4138	2.3	17
63	The Formation of Re <sub>2</sub> S <sub>2</sub> Inorganic Fullerene-Like Structures Containing Re <sub>4</sub> Parallelogram Units and Metal-Metal Bonds. <i>ChemInform</i> , <b>2010</b> , 33, no-no		1
62	Formylation of single-walled carbon nanotubes. <i>Carbon</i> , <b>2010</b> , 48, 3412-3419	10.4	22
61	The electronic fine structure of 4-nitrophenyl functionalized single-walled carbon nanotubes. <i>Nanotechnology</i> , <b>2009</b> , 20, 155704	3.4	27
60	Memory effects in MIS structures based on silicon and polymethylmethacrylate with nanoparticle charge-storage elements. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2009</b> , 159-160, 14-17	3.1	13

59	Nanotubes. <i>Annual Reports on the Progress of Chemistry Section A</i> , <b>2009</b> , 105, 382		1
58	Stable crystalline annulated diaminocarbenes: coordination with rhodium(I), iridium(I) and catalytic hydroformylation studies. <i>Dalton Transactions</i> , <b>2009</b> , 7203-14	4.3	23
57	Fluorescent single-walled carbon nanotubes following the 1,3-dipolar cycloaddition of pyridinium ylides. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10670-6	16.4	56
56	Nanotubes. <i>Annual Reports on the Progress of Chemistry Section A</i> , <b>2008</b> , 104, 379		2
55	Poole-Frenkel conduction in single wall carbon nanotube composite films built up by electrostatic layer-by-layer deposition. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 094503	2.5	30
54	Energy-band alignment of HfO <sub>2</sub> /BiO <sub>2</sub> /SiC gate dielectric stack. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 042904	3.4	34
53	A new route to the production and nanoscale patterning of highly smooth, ultrathin zirconium oxide films. <i>ACS Nano</i> , <b>2008</b> , 2, 643-50	16.7	27
52	A Facile, Solvent-Free, Noncovalent, and Nondisruptive Route To Functionalize Single-Wall Carbon Nanotubes Using Tertiary Phosphines. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 1705-1709	9.6	32
51	Poly(ethylene) glycol/single-walled carbon nanotube composites. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 4013-6	1.3	21
50	Iodination of Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 1076-1081	9.6	63
49	Nanotubes. <i>Annual Reports on the Progress of Chemistry Section A</i> , <b>2007</b> , 103, 392		3
48	Temperature dependent shape transformation of Ge nanostructures by the vapor-liquid-solid method. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 074307	2.5	17
47	Effects of interface engineering for HfO <sub>2</sub> gate dielectric stack on 4H-SiC. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 024105	2.5	25
46	Impact of Interfacial Nitridation of HfO <sub>2</sub> High-k Gate Dielectric Stack on 4H-SiC. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 996, 1		
45	Leakage current and charge trapping behavior in TiO <sub>2</sub> /BiO <sub>2</sub> high-k gate dielectric stack on 4H-SiC substrate. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2007</b> , 25, 217		54
44	Electrical investigations of layer-by-layer films of carbon nanotubes. <i>Journal Physics D: Applied Physics</i> , <b>2006</b> , 39, 3077-3085	3	32
43	A Stable Crystalline Imino-N-Heterocyclic Carbene Ligand and Its Corresponding Palladium(II) and Rhodium(I) Complexes. <i>Organometallics</i> , <b>2006</b> , 25, 300-306	3.8	66
42	Characterization of thermally oxidized TiBiO <sub>2</sub> gate dielectric stacks on 4H-SiC substrate. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 072910	3.4	24

41	Spatially controlled Suzuki and Heck catalytic molecular coupling. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 14135-41	16.4	48
40	Crystallization of 2H and 4H PbI <sub>2</sub> in Carbon Nanotubes of Varying Diameters and Morphologies. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 2059-2069	9.6	73
39	New group 10 complexes of the bulky iminophosphine ligands [Ph <sub>2</sub> PCH <sub>2</sub> C(Ph)N(2,6-R <sub>2</sub> C <sub>6</sub> H <sub>3</sub> )], where R = Me, iPr. <i>New Journal of Chemistry</i> , <b>2005</b> , 29, 385-397	3.6	13
38	Spatially resolved Suzuki coupling reaction initiated and controlled using a catalytic AFM probe. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 13082-3	16.4	42
37	Synthesis of a new bidentate ferrocenyl N-heterocyclic carbene ligand precursor and the palladium (II) complex trans-[PdCl <sub>2</sub> (C?fc?C)], where (C?fc?C)=1,1?-di-tert-butyl-3,3?-(1,1?-dimethyleneferrocenyl)-diimidazol-2-ylidene. <i>Journal of Organometallic Chemistry</i> , <b>2005</b> , 690, 653-658	2.3	36
36	New cationic palladium (II) and rhodium (I) complexes of [Ph <sub>2</sub> PCH <sub>2</sub> C(Ph)N(2,6-Me <sub>2</sub> C <sub>6</sub> H <sub>3</sub> )]. <i>Journal of Organometallic Chemistry</i> , <b>2005</b> , 690, 1645-1658	2.3	18
35	A nonenolizable imino-N-heterocyclic carbene ligand and corresponding silver (I) metal complex. <i>Journal of Organometallic Chemistry</i> , <b>2005</b> , 690, 5591-5596	2.3	24
34	Influence of catalyst metal particles on the hydrogen sorption of single-walled carbon nanotube materials. <i>Nanotechnology</i> , <b>2005</b> , 16, 512-517	3.4	23
33	Synthesis of a new zwitterionic cyclopentadienyl-imidazolium compound and isolation of the 3,3?-(trans-3,5-cyclopentenyl)di(1-tert-butylimidazolium)bromide intermediate. <i>Tetrahedron Letters</i> , <b>2004</b> , 45, 8695-8698	2	8
32	Silicon containing ferrocenyl phosphane ligands. <i>Journal of Organometallic Chemistry</i> , <b>2004</b> , 689, 770-774	4.3	3
31	Functionalization of single-walled carbon nanotubes via the Bingel reaction. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 8722-3	16.4	226
30	High yield incorporation and washing properties of halides incorporated into single walled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , <b>2003</b> , 76, 457-462	2.6	52
29	Chemical and biochemical sensing with modified single walled carbon nanotubes. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 3732-9	4.8	252
28	Silver(I) complex of a new imino-N-heterocyclic carbene and ligand transfer to palladium(II) and rhodium(I). <i>Dalton Transactions</i> , <b>2003</b> , 2917-2922	4.3	69
27	The relationship between the structure and the performance of Na-W-Mn/SiO <sub>2</sub> catalysts for the oxidative coupling of methane. <i>Applied Catalysis A: General</i> , <b>2002</b> , 225, 271-284	5.1	123
26	The formation of ReS(2) inorganic fullerene-like structures containing Re(4) parallelogram units and metal-metal bonds. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 11580-1	16.4	38
25	Bioelectrochemical single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 12664-5	16.4	380
24	Directly observed covalent coupling of quantum dots to single-wall carbon nanotubes. <i>Chemical Communications</i> , <b>2002</b> , 366-7	5.8	158

23	A new synthetic route to $[\text{MF}(\text{F})(\text{CO})_3]_4$ (M=Ru, Os) and their reactivity with $\text{P}(\text{C}_6\text{H}_4\text{-4-X})_3$ (X=OCH <sub>3</sub> , OH) and $\text{P}(\text{C}_6\text{H}_4\text{-2-OH})_3$ : Crystal structure of $[\text{Os}(\text{CO})_3\{\beta\text{-}(2\text{-OC}_6\text{H}_4)_2\text{P}(\text{C}_6\text{H}_4\text{-2-OH})\}]\text{C}_3\text{H}_6\text{O}$ . <i>Journal of Fluorine Chemistry</i> , <b>2001</b> , 112, 185-189	2.1	11
22	Methane combustion over supported cobalt catalysts. <i>Journal of Molecular Catalysis A</i> , <b>2001</b> , 175, 111-123		93
21	Catalytic Combustion of Methane over Cobalt/Magnesium Oxide Solid Solution Catalysts. <i>Catalysis Letters</i> , <b>2001</b> , 75, 65-71	2.8	16
20	Palladium(II) complexes with the bidentate iminophosphine ligand $[\text{Ph}_2\text{PCH}_2\text{C}(\text{Ph})\text{N}(2,6\text{-Me}_2\text{C}_6\text{H}_3)]$ . <i>Dalton Transactions RSC</i> , <b>2001</b> , 3384-3395		35
19	Effect of carburising agent on the structure of molybdenum carbides. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 3094-3098		72
18	Electron beam induced in situ clusterisation of 1D $\text{ZrCl}_4$ chains within single-walled carbon nanotubes. <i>Chemical Communications</i> , <b>2001</b> , 845-846	5.8	52
17	Two layer 4:4 co-ordinated KI crystals grown within single walled carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2000</b> , 329, 61-65	2.5	147
16	The size distribution, imaging and obstructing properties of C <sub>60</sub> and higher fullerenes formed within arc-grown single walled carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2000</b> , 316, 191-198	2.5	164
15	Catalytic oxidation of alcohols to aldehydes or ketones using osmium(IV) complexes with sulfoxides or N-methylmorpholine-N-oxide as the co-oxidant: a comparative study. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , <b>2000</b> , 3, 765-769		1
14	1D lanthanide halide crystals inserted into single-walled carbon nanotubes. <i>Chemical Communications</i> , <b>2000</b> , 2427-2428	5.8	66
13	Catalytic oxidation of alcohols into aldehydes and ketones by an osmium-copper bifunctional system using molecular oxygen. <i>Tetrahedron Letters</i> , <b>1999</b> , 40, 3723-3726	2	59
12	Synthesis and characterisation of $[\text{OC-6-33}][\text{OsCl}_2(\text{CO})_2\text{L}_2]$ (L=phosphine). Crystal structure of $[\text{OC-6-33}][\text{OsCl}_2(\text{CO})_2(\text{PEt}_3)_2]$ . <i>Polyhedron</i> , <b>1999</b> , 18, 1207-1210	2.7	7
11	Co-ordination of the chiral N,O-ligand 2-[(1S, 2S, 5R)-(-)-menthol]-pyridine to molybdenum(VI) and vanadium(IV) oxo complexes: Crystal structures of $[\text{MoO}_2\{2\text{-}(-)\text{menthol-pyridine}\}_2]$ and $[\text{VO}\{2\text{-}(-)\text{menthol-pyridine}\}_2]$ . <i>Polyhedron</i> , <b>1999</b> , 18, 2533-2536	2.7	29
10	Capillarity and silver nanowire formation observed in single walled carbon nanotubes. <i>Chemical Communications</i> , <b>1999</b> , 699-700	5.8	237
9	Selective Catalytic Oxidation of Alcohols by a Ruthenium-Copper Bifunctional System Using Molecular Oxygen. <i>European Journal of Inorganic Chemistry</i> , <b>1998</b> , 1998, 1673-1675	2.3	29
8	Reactions of iridium and rhodium hydrides with anhydrous HF; crystal structure of $[\text{Rh}(\text{CO})(\text{PPh}_3)_3][\text{BF}_4]$ . <i>Journal of Fluorine Chemistry</i> , <b>1998</b> , 91, 207-211	2.1	12
7	Air-stable ruthenium(II) and osmium(II) fluoride complexes. Crystal structures of $[\text{OC-6-13}][\text{MF}_2(\text{CO})_2(\text{PR}_3)_2]$ [M = Ru, $\text{PR}_3 = \text{PEtPh}_2$ ; M = Os, $\text{PR}_3 = \text{PPh}_3$ or $\text{P}(\text{C}_6\text{H}_{11})_3]$ . <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1997</b> , 3557-3562		22
6	Synthesis and characterisation of ruthenium carbonyl fluorides. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1997</b> , 1713-1718		16

- 5 Reaction of ruthenium(II) and osmium(II) hydrides with anhydrous HF. *Journal of the Chemical Society Dalton Transactions*, **1997**, 4555-4560 16
- 4 Tris(2,6-difluorophenyl)phosphite complexes of platinum group metals: Structure of trans-PtCl<sub>2</sub>(PEt<sub>3</sub>){P(O-2,6-C<sub>6</sub>H<sub>3</sub>F<sub>2</sub>)<sub>3</sub>}. *Polyhedron*, **1995**, 14, 2107-2113 2·7 7
- 3 Pentafluorophenylphosphine complexes of rhodium(I): extended X-ray absorption fine structure studies of  $[\{Rh[PPhx(C_6F_5)_3]_2(\mu-Cl)\}_n] (x=0,1)$  and  $[\{Rh[(C_6F_5)_2PCH_2CH_2P(C_6F_5)_2](\mu-Cl)\}_2]$ . Crystal structures of  $[RhCl(PPh_3)\{(C_6F_5)_2PCH_2CH_2P(C_6F_5)_2\}][C_4H_8O]$  and  $(C_6F_5)_2PCH_2CH_2P(C_6F_5)_2$ . *Journal of the Chemical Society Dalton Transactions*, **1995**, 4029-4037 14
- 2 Ruthenium and osmium acyl fluoride complexes. Crystal structure of  $[OC-6-13][RuF_2(CO)_2(PPh_3)_2][CD_2Cl_2]$ . *Journal of the Chemical Society Dalton Transactions*, **1995**, 1073-1076 3<sup>6</sup>
- 1 Cobalt nanoparticle catalysed graphitization and the effect of metal precursor decomposition temperature. *Materials Advances*, 3·3 4