

Karl S Coleman

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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	Graphene synthesis: relationship to applications. <i>Nanoscale</i> , 2013 , 5, 38-51	7.7	533
93	Bioelectrochemical single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2002 , 124, 12664-5	16.4	380
92	Chemical and biochemical sensing with modified single walled carbon nanotubes. <i>Chemistry - A European Journal</i> , 2003 , 9, 3732-9	4.8	252
91	A manufacturing perspective on graphene dispersions. <i>Current Opinion in Colloid and Interface Science</i> , 2015 , 20, 367-382	7.6	249
90	Capillarity and silver nanowire formation observed in single walled carbon nanotubes. <i>Chemical Communications</i> , 1999 , 699-700	5.8	237
89	Functionalization of single-walled carbon nanotubes via the Bingel reaction. <i>Journal of the American Chemical Society</i> , 2003 , 125, 8722-3	16.4	226
88	The size distribution, imaging and obstructing properties of C60 and higher fullerenes formed within arc-grown single walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2000 , 316, 191-198	2.5	164
87	Directly observed covalent coupling of quantum dots to single-wall carbon nanotubes. <i>Chemical Communications</i> , 2002 , 366-7	5.8	158
86	Two layer 4:4 co-ordinated KI crystals grown within single walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2000 , 329, 61-65	2.5	147
85	The relationship between the structure and the performance of Na-W-Mn/SiO ₂ catalysts for the oxidative coupling of methane. <i>Applied Catalysis A: General</i> , 2002 , 225, 271-284	5.1	123
84	Graphene film growth on polycrystalline metals. <i>Accounts of Chemical Research</i> , 2013 , 46, 23-30	24.3	117
83	Unweaving the rainbow: a review of the relationship between single-walled carbon nanotube molecular structures and their chemical reactivity. <i>Chemical Society Reviews</i> , 2012 , 41, 4409-29	58.5	105
82	Methane combustion over supported cobalt catalysts. <i>Journal of Molecular Catalysis A</i> , 2001 , 175, 111-123		93
81	Pyridine-functionalized single-walled carbon nanotubes as gelators for poly(acrylic acid) hydrogels. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15814-9	16.4	74
80	Crystallization of 2H and 4H PbI ₂ in Carbon Nanotubes of Varying Diameters and Morphologies. <i>Chemistry of Materials</i> , 2006 , 18, 2059-2069	9.6	73
79	Effect of carburising agent on the structure of molybdenum carbides. <i>Journal of Materials Chemistry</i> , 2001 , 11, 3094-3098		72
78	Silver(I) complex of a new imino-N-heterocyclic carbene and ligand transfer to palladium(II) and rhodium(I). <i>Dalton Transactions</i> , 2003 , 2917-2922	4.3	69

77	A Stable Crystalline Imino-N-Heterocyclic Carbene Ligand and Its Corresponding Palladium(II) and Rhodium(I) Complexes. <i>Organometallics</i> , 2006 , 25, 300-306	3.8	66
76	1D lanthanide halide crystals inserted into single-walled carbon nanotubes. <i>Chemical Communications</i> , 2000 , 2427-2428	5.8	66
75	Iodination of Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2007 , 19, 1076-1081	9.6	63
74	Catalytic oxidation of alcohols into aldehydes and ketones by an osmium-copper bifunctional system using molecular oxygen. <i>Tetrahedron Letters</i> , 1999 , 40, 3723-3726	2	59
73	Fluorescent single-walled carbon nanotubes following the 1,3-dipolar cycloaddition of pyridinium ylides. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10670-6	16.4	56
72	Leakage current and charge trapping behavior in TiO ₂ /BiO ₂ high- κ gate dielectric stack on 4H-SiC substrate. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 217		54
71	High yield incorporation and washing properties of halides incorporated into single walled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 457-462	2.6	52
70	Electron beam induced in situ clusterisation of 1D ZrCl ₄ chains within single-walled carbon nanotubes. <i>Chemical Communications</i> , 2001 , 845-846	5.8	52
69	Simple and scalable route for the Bottom-up synthesis of few-layer graphene platelets and thin films. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3378		48
68	Spatially controlled Suzuki and Heck catalytic molecular coupling. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14135-41	16.4	48
67	Spatially resolved Suzuki coupling reaction initiated and controlled using a catalytic AFM probe. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13082-3	16.4	42
66	Heterogenised N-heterocyclic carbene complexes: synthesis, characterisation and application for hydroformylation and C-C bond formation reactions. <i>Dalton Transactions</i> , 2011 , 40, 661-72	4.3	39
65	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> , 2002 , 124, 11580-1	16.4	38
64	Synthesis of a new bidentate ferrocenyl N-heterocyclic carbene ligand precursor and the palladium (II) complex trans-[PdCl ₂ (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> , 2005 , 696, 653-656	2.3	36
63	Ruthenium and osmium acyl fluoride complexes. Crystal structure of [OC-6-13][RuF ₂ (CO) ₂ (PPh ₃) ₂][CD ₂ Cl ₂]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1995 , 1073-1076		36
62	Palladium(II) complexes with the bidentate iminophosphine ligand [Ph ₂ PCH ₂ C(Ph)N(2,6-Me ₂ C ₆ H ₃)]. <i>Dalton Transactions RSC</i> , 2001 , 3384-3395		35
61	The superiority of air oxidation over liquid-phase oxidative treatment in the purification of carbon nanotubes. <i>Carbon</i> , 2011 , 49, 3031-3038	10.4	34
60	Energy-band alignment of HfO ₂ /BiO ₂ /BiC gate dielectric stack. <i>Applied Physics Letters</i> , 2008 , 92, 042904	3.4	34

59	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> , 2010 , 29, 4858-4870	3.8	32
58	A Facile, Solvent-Free, Noncovalent, and Nondisruptive Route To Functionalize Single-Wall Carbon Nanotubes Using Tertiary Phosphines. <i>Chemistry of Materials</i> , 2008 , 20, 1705-1709	9.6	32
57	Electrical investigations of layer-by-layer films of carbon nanotubes. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 3077-3085	3	32
56	Distortion of Chain Conformation and Reduced Entanglement in Polymer-Graphene Oxide Nanocomposites. <i>ACS Macro Letters</i> , 2016 , 5, 430-434	6.6	30
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> , 2008 , 104, 094503	2.5	30
54	Selective Catalytic Oxidation of Alcohols by a Ruthenium-Copper Bifunctional System Using Molecular Oxygen. <i>European Journal of Inorganic Chemistry</i> , 1998 , 1998, 1673-1675	2.3	29
53	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 [MoO ₂ {2-(-)-menthol-pyridine} ₂] and [VO{2-(-)-menthol-pyridine} ₂]. <i>Polyhedron</i> , 1999 , 18, 2533-2536	2.7	29
52	The electronic fine structure of 4-nitrophenyl functionalized single-walled carbon nanotubes. <i>Nanotechnology</i> , 2009 , 20, 155704	3.4	27
51	A new route to the production and nanoscale patterning of highly smooth, ultrathin zirconium oxide films. <i>ACS Nano</i> , 2008 , 2, 643-50	16.7	27
50	Effects of interface engineering for HfO ₂ gate dielectric stack on 4H-SiC. <i>Journal of Applied Physics</i> , 2007 , 102, 024105	2.5	25
49	Characterization of thermally oxidized TiSiO ₂ gate dielectric stacks on 4H-SiC substrate. <i>Applied Physics Letters</i> , 2006 , 88, 072910	3.4	24
48	A nonenolizable imino-N-heterocyclic carbene ligand and corresponding silver (I) metal complex. <i>Journal of Organometallic Chemistry</i> , 2005 , 690, 5591-5596	2.3	24
47	Stable crystalline annulated diaminocarbenes: coordination with rhodium(I), iridium(I) and catalytic hydroformylation studies. <i>Dalton Transactions</i> , 2009 , 7203-14	4.3	23
46	Influence of catalyst metal particles on the hydrogen sorption of single-walled carbon nanotube materials. <i>Nanotechnology</i> , 2005 , 16, 512-517	3.4	23
45	Formylation of single-walled carbon nanotubes. <i>Carbon</i> , 2010 , 48, 3412-3419	10.4	22
44	Air-stable ruthenium(II) and osmium(II) fluoride complexes. Crystal structures of [OC-6-13][MF ₂ (CO) ₂ (PR ₃) ₂] [M = Ru, PR ₃ = PEtPh ₂ ; M = Os, PR ₃ = PPh ₃ or P(C ₆ H ₁₁) ₃]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997 , 3557-3562		22
43	Poly(ethylene) glycol/single-walled carbon nanotube composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 4013-6	1.3	21
42	Exploring the alignment of carbon nanotubes dispersed in a liquid crystal matrix using coplanar electrodes. <i>Journal of Applied Physics</i> , 2015 , 117, 125303	2.5	20

41	Controlled Structure Evolution of Graphene Networks in Polymer Composites. <i>Chemistry of Materials</i> , 2018 , 30, 1524-1531	9.6	20
40	Formation of 3D graphene foams on soft templated metal monoliths. <i>Nanoscale</i> , 2016 , 8, 13303-10	7.7	20
39	Extrinsic Wrinkling and Single Exfoliated Sheets of Graphene Oxide in Polymer Composites. <i>Chemistry of Materials</i> , 2016 , 28, 1698-1704	9.6	20
38	New cationic palladium (II) and rhodium (I) complexes of [Ph ₂ PCH ₂ C(Ph)N(2,6-Me ₂ C ₆ H ₃)]. <i>Journal of Organometallic Chemistry</i> , 2005 , 690, 1645-1658	2.3	18
37	Routes to Ruthenium Fluoro Cations of the Type [RuL ₂ (CO) _n F] ⁺ (n = 2,3; L = PR ₃ , NHC): A Play-Off between Solvent, L and Weakly Coordinating Anion. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 4130-4138	2.3	17
36	Temperature dependent shape transformation of Ge nanostructures by the vapor-liquid-solid method. <i>Journal of Applied Physics</i> , 2007 , 101, 074307	2.5	17
35	Synthesis and characterisation of ruthenium carbonyl fluorides. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997 , 1713-1718		16
34	Reaction of ruthenium(II) and osmium(II) hydrides with anhydrous HF. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997 , 4555-4560		16
33	Catalytic Combustion of Methane over Cobalt/Magnesium Oxide Solid Solution Catalysts. <i>Catalysis Letters</i> , 2001 , 75, 65-71	2.8	16
32	Pentafluorophenylphosphine complexes of rhodium(I): extended X-ray absorption fine structure studies of [Rh[PPhx(C ₆ F ₅) ₃] ₂ (η -Cl)] _n (x= 0,1) and [Rh[(C ₆ F ₅) ₂ PCH ₂ CH ₂ P(C ₆ F ₅) ₂](η -Cl)] ₂ . Crystal structures of [RhCl(PPh ₃){(C ₆ F ₅) ₂ PCH ₂ CH ₂ P(C ₆ F ₅) ₂ }] \cdot [C ₄ H ₈ O] and [RhCl(PPh ₃){(C ₆ F ₅) ₂ PCH ₂ CH ₂ P(C ₆ F ₅) ₂ }] \cdot [C ₆ H ₆]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997 , 1029-1037		14
31	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> , 2009 , 159-160, 14-17	3.1	13
30	New group 10 complexes of the bulky iminophosphine ligands [Ph ₂ PCH ₂ C(Ph)N(2,6-R ₂ C ₆ H ₃)], where R = Me, iPr. <i>New Journal of Chemistry</i> , 2005 , 29, 385-397	3.6	13
29	Reactions of iridium and rhodium hydrides with anhydrous HF; crystal structure of [Rh(CO)(PPh ₃) ₃][BF ₄] \cdot thf. <i>Journal of Fluorine Chemistry</i> , 1998 , 91, 207-211	2.1	12
28	A new synthetic route to [MF(F)(CO) ₃] ₄ (M=Ru, Os) and their reactivity with P(C ₆ H ₄ -4-X) ₃ (X=OCH ₃ , OH) and P(C ₆ H ₄ -2-OH) ₃ : Crystal structure of [Os(CO) ₃ { β -(2-OC ₆ H ₄) ₂ P(C ₆ H ₄ -2-OH)}] \cdot [C ₃ H ₆ O]. <i>Journal of Fluorine Chemistry</i> , 2001 , 112, 185-189	2.1	11
27	Ester-functionalized single-walled carbon nanotubes via addition of haloformates. <i>Journal of Materials Science</i> , 2014 , 49, 5190-5198	4.3	10
26	Probing the selectivity of azomethine imine cycloaddition to single-walled carbon nanotubes by resonance Raman spectroscopy. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 2925-30	4.5	9
25	Sensing properties of light-emitting single walled carbon nanotubes prepared via click chemistry of ylides bound to the nanotube surface. <i>RSC Advances</i> , 2015 , 5, 36865-36873	3.7	8
24	Synthesis of a new zwitterionic cyclopentadienyl-imidazolium compound and isolation of the 3,3 β -(trans-3,5-cyclopentenyl)di(1-tert-butylimidazolium)bromide intermediate. <i>Tetrahedron Letters</i> , 2004 , 45, 8695-8698	2	8

23	Synthesis and characterization of a substituted indolizine and investigation of its photoluminescence quenching via electron deficient nitroaromatics. <i>Arkivoc</i> , 2014 , 2014, 362-371	0.9	8
22	Synthesis and characterisation of [OC-6-33][OsCl ₂ (CO) ₂ L ₂] (L=phosphine). Crystal structure of [OC-6-33][OsCl ₂ (CO) ₂ (PET ₃) ₂]. <i>Polyhedron</i> , 1999 , 18, 1207-1210	2.7	7
21	Tris(2,6-difluorophenyl)phosphite complexes of platinum group metals: Structure of trans-PtCl ₂ (PET ₃){P(O-2,6-C ₆ H ₃ F ₂) ₃ }. <i>Polyhedron</i> , 1995 , 14, 2107-2113	2.7	7
20	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> , 2017 , 53, 7748-7751	5.8	6
19	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> , 2014 , 145, 99-107	4.4	5
18	Tungstate sharpening: a versatile method for extending the profile of ultra sharp tungsten probes. <i>Review of Scientific Instruments</i> , 2013 , 84, 035107	1.7	5
17	Synthesis and Characterization of Molecularly-Bridged Single-Walled Carbon Nanotubes and Electrical Properties of Their Films. <i>Science of Advanced Materials</i> , 2013 , 5, 1967-1973	2.3	5
16	Platinum(II)-Coordinated Pyridine-Functionalized Single-Wall Carbon Nanotubes and Electron Transport in Their Films. <i>ChemNanoMat</i> , 2015 , 1, 353-358	3.5	4
15	Nanotubes. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2012 , 108, 478		4
14	Cobalt nanoparticle catalysed graphitization and the effect of metal precursor decomposition temperature. <i>Materials Advances</i> ,	3.3	4
13	Formylation of single-walled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 2929-33	1.3	3
12	Nanotubes. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2007 , 103, 392		3
11	Silicon containing ferrocenyl phosphane ligands. <i>Journal of Organometallic Chemistry</i> , 2004 , 689, 770-774.	2.3	3
10	A Statistical Approach to Raman Analysis of Graphene-Related Materials: Implications for Quality Control. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11229-11239	5.6	3
9	Carbon Nanotubes: Electronic Structure and Spectroscopy 2019 , 205-218		3
8	Graphene oxide nanocapsules within silanized hydrogels suitable for electrochemical pseudocapacitors. <i>Chemical Communications</i> , 2015 , 51, 10345-8	5.8	2
7	Nanotubes. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2008 , 104, 379		2
6	Nanotubes. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2009 , 105, 382		1

- 5 The Formation of ReS₂ Inorganic Fullerene-Like Structures Containing Re₄ Parallelogram Units and Metal-Metal Bonds.. *ChemInform*, **2010**, 33, no-no 1
- 4 Catalytic oxidation of alcohols to aldehydes or ketones using osmium(VI) complexes with sulfoxides or N-methylmorpholine-N-oxide as the co-oxidant: a comparative study. *Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry*, **2000**, 3, 765-769 1
- 3 Nanotubes. *Annual Reports on the Progress of Chemistry Section A*, **2010**, 106, 376
- 2 Nanotubes. *Annual Reports on the Progress of Chemistry Section A*, **2011**, 107, 490
- 1 Impact of Interfacial Nitridation of HfO₂ High-k Gate Dielectric Stack on 4H-SiC. *Materials Research Society Symposia Proceedings*, **2007**, 996, 1