Robert H Hauge

List of Publications by Year
in descending order

215	25,726	13068 68	6282 158
papers	citations	h-index	g-index

217	217	217	19935
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	From Newspaper Substrate to Nanotubesâ€"Analysis of Carbonized Soot Grown on Kaolin Sized Newsprint. Journal of Carbon Research, 2019, 5, 66.	1.4	1
2	Atomic H-Induced Mo₂C Hybrid as an Active and Stable Bifunctional Electrocatalyst. ACS Nano, 2017, 11, 384-394.	7.3	149
3	Overcoming Catalyst Residue Inhibition of the Functionalization of Single-Walled Carbon Nanotubes via the Billupsâ€"Birch Reduction. ACS Applied Materials & Interfaces, 2017, 9, 37972-37980.	4.0	18
4	Apparatus for Scalable Functionalization of Single-Walled Carbon Nanotubes via the Billups-Birch Reduction. Journal of Carbon Research, 2017, 3, 19.	1.4	6
5	Wafer-scale monodomain films of spontaneously aligned single-walled carbon nanotubes. Nature Nanotechnology, 2016, 11, 633-638.	15.6	292
6	Growth and Transfer of Seamless 3D Grapheneâ€"Nanotube Hybrids. Nano Letters, 2016, 16, 1287-1292.	4.5	26
7	Enhanced purification of carbon nanotubes by microwave and chlorine cleaning procedures. RSC Advances, 2016, 6, 11895-11902.	1.7	48
8	Growing Carbon Nanotubes from Both Sides of Graphene. ACS Applied Materials & Interfaces, 2016, 8, 7356-7362.	4.0	34
9	Structure-Dependent Thermal Defunctionalization of Single-Walled Carbon Nanotubes. ACS Nano, 2015, 9, 6324-6332.	7.3	16
10	Generation of Terahertz Radiation by Optical Excitation of Aligned Carbon Nanotubes. Nano Letters, 2015, 15, 3267-3272.	4.5	86
11	Figure of Merit for Carbon Nanotube Photothermoelectric Detectors. ACS Nano, 2015, 9, 11618-11627.	7.3	51
12	Polarization-Dependent Terahertz Spectroscopy of Macroscopically Aligned Carbon Nanotubes. , 2015, , .		0
13	Using Nonionic Surfactants for Production of Semiconductor-Type Carbon Nanotubes by Gel-Based Affinity Chromatography. Nanomaterials and Nanotechnology, 2014, 4, 19.	1.2	7
14	Rebar Graphene. ACS Nano, 2014, 8, 5061-5068.	7.3	178
15	Vertically Aligned Carbon Nanotubes/Graphene Hybrid Electrode as a TCO- and Pt-Free Flexible Cathode for Application in Solar Cells. Journal of Materials Chemistry A, 2014, 2, 20902-20907.	5.2	47
16	Preparation and evaluation of polyethyleneimine-single walled carbon nanotube conjugates as vectors for pancreatic cancer treatment. Journal of Materials Chemistry B, 2014, 2, 4740.	2.9	33
17	Carbon Nanotube Terahertz Detector. Nano Letters, 2014, 14, 3953-3958.	4.5	223
18	Three-Dimensional Thin Film for Lithium-Ion Batteries and Supercapacitors. ACS Nano, 2014, 8, 7279-7287.	7.3	50

#	Article	IF	Citations
19	Terahertz Detector Based on a p-n Junction Film of Aligned Carbon Nanotubes. , 2014, , .		0
20	Single walled carbon nanotube growth and chirality dependence on catalyst composition. Nanoscale, 2013, 5, 9848.	2.8	22
21	Fundamental optical processes in armchair carbon nanotubes. Nanoscale, 2013, 5, 1411.	2.8	56
22	3-Dimensional Graphene Carbon Nanotube Carpet-Based Microsupercapacitors with High Electrochemical Performance. Nano Letters, 2013, 13, 72-78.	4.5	672
23	Physical removal of metallic carbon nanotubes from nanotube network devices using a thermal and fluidic process. Nanotechnology, 2013, 24, 105202.	1.3	13
24	Photothermoelectric pâ€“n Junction Photodetector with Intrinsic Broadband Polarimetry Based on Macroscopic Carbon Nanotube Films. ACS Nano, 2013, 7, 7271-7277.	7.3	99
25	Splitting of a Vertical Multiwalled Carbon Nanotube Carpet to a Graphene Nanoribbon Carpet and Its Use in Supercapacitors. ACS Nano, 2013, 7, 5151-5159.	7.3	71
26	Broadband, Polarization-Sensitive Photodetector Based on Optically-Thick Films of Macroscopically Long, Dense and Aligned Carbon Nanotubes. Scientific Reports, 2013, 3, 1335.	1.6	110
27	High Electrocatalytic Activity of Vertically Aligned Single-Walled Carbon Nanotubes towards Sulfide Redox Shuttles. Scientific Reports, 2012, 2, 368.	1.6	83
28	A seamless three-dimensional carbon nanotube graphene hybrid material. Nature Communications, 2012, 3, 1225.	5.8	456
29	Control over the Diameter, Length, and Structure of Carbon Nanotube Carpets Using Aluminum Ferrite and Iron Oxide Nanocrystals as Catalyst Precursors. Journal of Physical Chemistry C, 2012, 116, 10287-10295.	1.5	24
30	Broadband Terahertz Polarizers with Ideal Performance Based on Aligned Carbon Nanotube Stacks. Nano Letters, 2012, 12, 787-790.	4.5	153
31	Optoelectronic Properties of Singleâ€Wall Carbon Nanotubes. Advanced Materials, 2012, 24, 4977-4994.	11.1	138
32	Closed-Edged Graphene Nanoribbons from Large-Diameter Collapsed Nanotubes. ACS Nano, 2012, 6, 6023-6032.	7.3	65
33	Unique Origin of Colors of Armchair Carbon Nanotubes. Journal of the American Chemical Society, 2012, 134, 4461-4464.	6.6	39
34	Overcoming the â€œCoffee-Stainâ€•Effect by Compositional Marangoni-Flow-Assisted Drop-Drying. Journal of Physical Chemistry B, 2012, 116, 6536-6542.	1.2	226
35	Catalystâ€“support interactions and their influence in water-assisted carbon nanotube carpet growth. Carbon, 2012, 50, 2396-2406.	5.4	60
36	Synthesis of hollow carbon nano-onions and their use for electrochemical hydrogen storage. Carbon, 2012, 50, 3513-3521.	5.4	94

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37	Uniform Large Diameter Carbon Nanotubes in Vertical Arrays from Premade Near-Monodisperse Nanoparticles. Chemistry of Materials, 2011, 23, 3466-3475.	3.2	26
38	Supergrowth of Nitrogen-Doped Single-Walled Carbon Nanotube Arrays: Active Species, Dopant Characterization, and Doped/Undoped Heterojunctions. ACS Nano, 2011, 5, 6925-6934.	7.3	37
39	Vertically Aligned Single-Walled Carbon Nanotubes as Low-cost and High Electrocatalytic Counter Electrode for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2011, 3, 3157-3161.	4.0	88
40	Direct imaging of carbon nanotubes spontaneously filled with solvent. Chemical Communications, 2011, 47, 1228-1230.	2.2	12
41	Towards hybrid superlattices in graphene. Nature Communications, 2011, 2, 559.	5.8	145
42	Three dimensional solid-state supercapacitors from aligned single-walled carbon nanotube array templates. Carbon, 2011, 49, 4890-4897.	5.4	84
43	Insights into the physics of spray coating of SWNT films. Chemical Engineering Science, 2010, 65, 2000-2008.	1.9	80
44	Controlled attachment of metal nanoparticles to single walled carbon nanotubes as a key step in their seeded growth and lengthening. Carbon, 2010, 48, 561-565.	5.4	4
45	Evolution, Activity, and Lifetime of Alumina-supported Fe Catalyst During Super Growth of Single-walled Carbon Nanotube Carpets: Influence of the Type of Alumina. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	1
46	Dry Contact Transfer Printing of Aligned Carbon Nanotube Patterns and Characterization of Their Optical Properties for Diameter Distribution and Alignment. ACS Nano, 2010, 4, 1131-1145.	7.3	90
47	Influence of Alumina Type on the Evolution and Activity of Alumina-Supported Fe Catalysts in Single-Walled Carbon Nanotube Carpet Growth. ACS Nano, 2010, 4, 895-904.	7.3	201
48	Enrichment of Armchair Carbon Nanotubes via Density Gradient Ultracentrifugation: Raman Spectroscopy Evidence. ACS Nano, 2010, 4, 1955-1962.	7.3	83
49	Dendrimer-Assisted Self-Assembled Monolayer of Iron Nanoparticles for Vertical Array Carbon Nanotube Growth. ACS Applied Materials & Interfaces, 2010, 2, 15-18.	4.0	17
50	Spontaneous Dissolution of Ultralong Single- and Multiwalled Carbon Nanotubes. ACS Nano, 2010, 4, 3969-3978.	7.3	124
51	Evolution in Catalyst Morphology Leads to Carbon Nanotube Growth Termination. Journal of Physical Chemistry Letters, 2010, 1, 918-922.	2.1	177
52	Catalyst and catalyst support morphology evolution in single-walled carbon nanotube supergrowth: Growth deceleration and termination. Journal of Materials Research, 2010, 25, 1875-1885.	1.2	43
53	Wet Catalyst-Support Films for Production of Vertically Aligned Carbon Nanotubes. ACS Applied Materials & Interfaces, 2010, 2, 1851-1856.	4.0	17
54	Alignment dependence of one-dimensional electronic hopping transport observed in films of highly aligned, ultralong single-walled carbon nanotubes. Applied Physics Letters, 2009, 94, .	1.5	23

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55	Templated growth of graphenic materials. Nanotechnology, 2009, 20, 245607.	1.3	15
56	Odako growth of dense arrays of single-walled carbon nanotubes attached to carbon surfaces. Nano Research, 2009, 2, 526-534.	5.8	45
57	True solutions of single-walled carbon nanotubes for assembly into macroscopic materials. Nature Nanotechnology, 2009, 4, 830-834.	15.6	486
58	Electron-induced cutting of single-walled carbon nanotubes. Carbon, 2009, 47, 178-185.	5.4	28
59	Nebulization of single-walled carbon nanotubes for respiratory toxicity studies. Carbon, 2009, 47, 2528-2530.	5.4	16
60	Alignment Dynamics of Single-Walled Carbon Nanotubes in Pulsed Ultrahigh Magnetic Fields. ACS Nano, 2009, 3, 131-138.	7.3	51
61	Rapid and Scalable Reduction of Dense Surface-Supported Metal-Oxide Catalyst with Hydrazine Vapor. ACS Nano, 2009, 3, 1897-1905.	7.3	27
62	Recycling Ultrathin Catalyst Layers for Multiple Single-Walled Carbon Nanotube Array Regrowth Cycles and Selectivity in Catalyst Activation. Chemistry of Materials, 2009, 21, 1550-1556.	3.2	21
63	Abrasion as a Catalyst Deposition Technique for Carbon Nanotube Growth. Journal of the American Chemical Society, 2009, 131, 15041-15048.	6.6	12
64	Role of Water in Super Growth of Single-Walled Carbon Nanotube Carpets. Nano Letters, 2009, 9, 44-49.	4.5	371
65	Carbon Nanotube Terahertz Polarizer. Nano Letters, 2009, 9, 2610-2613.	4.5	240
66	Investigation of Optimal Parameters for Oxide-Assisted Growth of Vertically Aligned Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 4125-4133.	1.5	91
67	Selective Photochemical Functionalization of Surfactant-Dispersed Single Wall Carbon Nanotubes in Water. Journal of the American Chemical Society, 2008, 130, 14227-14233.	6.6	38
68	Synthesis of High Aspect-Ratio Carbon Nanotube â€œFlying Carpetsâ€•from Nanostructured Flake Substrates. Nano Letters, 2008, 8, 1879-1883.	4.5	68
69	Reductive Alkylation of Fluorinated Graphite. Chemistry of Materials, 2008, 20, 3134-3136.	3.2	30
70	Formation of Highly Dense Aligned Ribbons and Transparent Films of Single-Walled Carbon Nanotubes Directly from Carpets. ACS Nano, 2008, 2, 1871-1878.	7.3	98
71	Temperature and Gas Pressure Effects in Vertically Aligned Carbon Nanotube Growth from Feâ^'Mo Catalyst. Journal of Physical Chemistry C, 2008, 112, 14041-14051.	1.5	52
72	The Role of the Substrate Surface Morphology and Water in Growth of Vertically Aligned Single-Walled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2008, 8, 6158-6164.	0.9	15

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73	Catalyst design for carbon nanotube growth using atomistic modeling. Nanotechnology, 2008, 19, 405704.	1.3	6
74	Dispersions of Functionalized Single-Walled Carbon Nanotubes in Strong Acids:Solubility and Rheology. Journal of Nanoscience and Nanotechnology, 2007, 7, 3378-3385.	0.9	22
75	Statistically Accurate Length Measurements of Single-Walled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2007, 7, 2917-2921.	0.9	27
76	Solubility and Size Separation of Large Fullerenes in Concentrated Sulfuric Acids. Journal of Physical Chemistry C, 2007, 111, 17966-17969.	1.5	7
77	Amplification of Single-Walled Carbon Nanotubes from Designed Seeds:â€‰ Separation of Nucleation and Growthâ€. Journal of Physical Chemistry C, 2007, 111, 17804-17806.	1.5	24
78	Diameter Selection of Single-Walled Carbon Nanotubes through Programmable Solvation in Binary Sulfonic Acid Mixtures. Journal of Physical Chemistry C, 2007, 111, 17827-17834.	1.5	12
79	Growth of Single-Walled Carbon Nanotubes on a Nanorough Surface. Journal of Physical Chemistry C, 2007, 111, 9142-9145.	1.5	3
80	Nanoscopically Flat Open-Ended Single-Walled Carbon Nanotube Substrates for Continued Growth. Nano Letters, 2007, 7, 15-21.	4.5	10
81	Characterization of Large Fullerenes in Single-Wall Carbon Nanotube Production by Ion Mobility Mass Spectrometry. Journal of Physical Chemistry C, 2007, 111, 36-44.	1.5	14
82	A Highly Selective, One-Pot Purification Method for Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2007, 111, 1249-1252.	1.2	99
83	Simple Length Determination of Single-Walled Carbon Nanotubes by Viscosity Measurements in Dilute Suspensions. Macromolecules, 2007, 40, 4043-4047.	2.2	75
84	Chirality Assignment of Micelle-Suspended Single-Walled Carbon Nanotubes Using Coherent Phonon Oscillations. Journal of the Korean Physical Society, 2007, 51, 306.	0.3	8
85	Highly Exfoliated Water-Soluble Single-Walled Carbon Nanotubes. Chemistry of Materials, 2006, 18, 1520-1524.	3.2	75
86	Single Wall Carbon Nanotube Amplification:Â En Route to a Type-Specific Growth Mechanism. Journal of the American Chemical Society, 2006, 128, 15824-15829.	6.6	209
87	Effects of atomic hydrogen and active carbon species in 1mm vertically aligned single-walled carbon nanotube growth. Applied Physics Letters, 2006, 89, 123116.	1.5	45
88	Effect of Magnesium and Iron on the Hydration and Hydrolysis of Guar Gum. Biomacromolecules, 2006, 7, 441-445.	2.6	22
89	Dielectrophoresis Field Flow Fractionation of Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2006, 128, 8396-8397.	6.6	94
90	Surface Area Measurement of Functionalized Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2006, 110, 24812-24815.	1.2	47

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91	Cutting of Single-Walled Carbon Nanotubes by Ozonolysis. Journal of Physical Chemistry B, 2006, 110, 11624-11627.	1.2	67
92	Efficient Transfer of a VA-SWNT Film by a Flip-Over Technique. Journal of the American Chemical Society, 2006, 128, 9312-9313.	6.6	20
93	Coherent Lattice Vibrations in Single-Walled Carbon Nanotubes. Nano Letters, 2006, 6, 2696-2700.	4.5	93
94	Vertical Array Growth of Small Diameter Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2006, 128, 6560-6561.	6.6	93
95	Ozonolysis of Functionalized Single-Walled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2006, 6, 1935-1938.	0.9	11
96	Sidewall functionalization of single-wall carbon nanotubes (SWNTs) through aryl free radical addition. Chemical Physics Letters, 2006, 430, 93-96.	1.2	34
97	Isotropicâ^'Nematic Phase Transition of Single-Walled Carbon Nanotubes in Strong Acids. Journal of the American Chemical Society, 2006, 128, 591-595.	6.6	122
98	Carbon Nanotube Salts. Arylation of Single-Wall Carbon Nanotubes. Organic Letters, 2005, 7, 4067-4069.	2.4	93
99	Carbon Nanotube Salts. Arylation of Single-Wall Carbon Nanotubes.. ChemInform, 2005, 36, no.	0.1	0
100	Free Radical Chemistry During Slow Pyrolysis of Solid Fuels. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 2005, 27, 279-298.	0.5	9
101	Controlled Oxidative Cutting of Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2005, 127, 1541-1547.	6.6	354
102	In situ Raman studies on lithiated single-wall carbon nanotubes in liquid ammonia. Chemical Physics Letters, 2005, 410, 467-470.	1.2	21
103	Revealing the Substructure of Single-Walled Carbon Nanotube Fibers. Chemistry of Materials, 2005, 17, 6361-6368.	3.2	12
104	Length-Dependent Extraction of Single-Walled Carbon Nanotubes. Nano Letters, 2005, 5, 2355-2359.	4.5	62
105	Functionalization and Extraction of Large Fullerenes and Carbon-Coated Metal Formed during the Synthesis of Single Wall Carbon Nanotubes by Laser Oven, Direct Current Arc, and High-Pressure Carbon Monoxide Production Methods. Journal of Physical Chemistry B, 2005, 109, 4416-4418.	1.2	33
106	Controlled Multistep Purification of Single-Walled Carbon Nanotubes. Nano Letters, 2005, 5, 163-168.	4.5	130
107	Cutting single-walled carbon nanotubes. Nanotechnology, 2005, 16, S539-S544.	1.3	101
108	Continued Growth of Single-Walled Carbon Nanotubes. Nano Letters, 2005, 5, 997-1002.	4.5	121

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109	A Model for Nucleation and Growth of Single Wall Carbon Nanotubes via the HiPco Process: A Catalyst Concentration Study. Journal of Nanoscience and Nanotechnology, 2005, 5, 1035-1040.	0.9	19
110	A Convenient Route to Functionalized Carbon Nanotubes. Nano Letters, 2004, 4, 1257-1260.	4.5	297
111	Optical Signatures of the Aharonov-Bohm Phase in Single-Walled Carbon Nanotubes. Science, 2004, 304, 1129-1131.	6.0	307
112	Phase Behavior and Rheology of SWNTs in Superacids. Macromolecules, 2004, 37, 154-160.	2.2	337
113	Ultrathin â€œBed-of-Nailsâ€•Membranes of Single-Wall Carbon Nanotubes. Journal of the American Chemical Society, 2004, 126, 9502-9503.	6.6	11
114	Estimation of Magnetic Susceptibility Anisotropy of Carbon Nanotubes Using Magnetophotoluminescence. Nano Letters, 2004, 4, 2219-2221.	4.5	89
115	Macroscopic, Neat, Single-Walled Carbon Nanotube Fibers. Science, 2004, 305, 1447-1450.	6.0	785
116	Dissolution of Pristine Single Walled Carbon Nanotubes in Superacids by Direct Protonation. Journal of Physical Chemistry B, 2004, 108, 8794-8798.	1.2	262
117	Individually Suspended Single-Walled Carbon Nanotubes in Various Surfactants. Nano Letters, 2003, 3, 1379-1382.	4.5	1,532
118	Enhancement of the chemical resistance of nitrile rubber by direct fluorination. Journal of Applied Polymer Science, 2003, 89, 971-979.	1.3	22
119	ZnBr2-catalyzed chemical effects in poly(acrylonitrile-co-butadiene). Journal of Applied Polymer Science, 2003, 89, 1250-1257.	1.3	6
120	SWNT/PAN composite film-based supercapacitors. Carbon, 2003, 41, 2440-2442.	5.4	80
121	Crystallization and orientation studies in polypropylene/single wall carbon nanotube composite. Polymer, 2003, 44, 2373-2377.	1.8	694
122	Covalent Sidewall Functionalization of Single Wall Carbon Nanotubes. Journal of the American Chemical Society, 2003, 125, 3617-3621.	6.6	212
123	Assignment of (n, m) Raman and Optical Features of Metallic Single-Walled Carbon Nanotubes. Nano Letters, 2003, 3, 1091-1096.	4.5	250
124	Single-Wall Carbon Nanotube Films. Chemistry of Materials, 2003, 15, 175-178.	3.2	259
125	Identification of Large Fullerenes Formed during the Growth of Single-Walled Carbon Nanotubes in the HiPco Process. Journal of Physical Chemistry B, 2003, 107, 1360-1365.	1.2	21
126	Reversible, Band-Gap-Selective Protonation of Single-Walled Carbon Nanotubes in Solution. Journal of Physical Chemistry B, 2003, 107, 6979-6985.	1.2	345

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127	Poly(vinyl alcohol)/SWNT Composite Film. Nano Letters, 2003, 3, 1285-1288.	4.5	450
128	Electronic Structure Control of Single-Walled Carbon Nanotube Functionalization. Science, 2003, 301, 1519-1522.	6.0	1,270
129	Capillary Electrophoresis Separations of Bundled and Individual Carbon Nanotubes. Journal of Physical Chemistry B, 2003, 107, 6063-6069.	1.2	107
130	Comment on "Single Crystals of Single-Walled Carbon Nanotubes Formed by Self-Assembly". Science, 2003, 300, 1236b-1236.	6.0	8
131	(n,m)-Assigned Absorption and Emission Spectra of Single-Walled Carbon Nanotubes. AIP Conference Proceedings, 2003, , .	0.3	2
132	The Role of Surfactant Adsorption during Ultrasonication in the Dispersion of Single-Walled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2003, 3, 81-86.	0.9	466
133	Oxidative Properties and Chemical Stability of Fluoronanotubes in Matrixes of Binary Inorganic Compounds. Journal of Nanoscience and Nanotechnology, 2003, 3, 87-92.	0.9	4
134	Adsorption of Fluorinated C60on the Si(111)-(7Ã—7) Surface Studied by Scanning Tunneling Microscopy and High-Resolution Electron Energy Loss Spectroscopy. Japanese Journal of Applied Physics, 2002, 41, 245-249.	0.8	11
135	Synthesis, Structure, and Properties of PBO/SWNT Composites&. Macromolecules, 2002, 35, 9039-9043.	2.2	455
136	Band Gap Fluorescence from Individual Single-Walled Carbon Nanotubes. Science, 2002, 297, 593-596.	6.0	3,582
137	Structure-Assigned Optical Spectra of Single-Walled Carbon Nanotubes. Science, 2002, 298, 2361-2366.	6.0	2,826
138	Matrix-Isolation Studies of the Reactions of Ground- and Excited-State Atomic Iron with Cyclopropane. Organometallics, 2000, 19, 39-48.	1.1	8
139	Gas-Phase Purification of Single-Wall Carbon Nanotubes. Chemistry of Materials, 2000, 12, 1361-1366.	3.2	141
140	Reactions of Atomic Manganese with CH2N2 in Solid Argon at 12 K. Organometallics, 1999, 18, 3551-3553.	1.1	12
141	Other CVD Methods for Diamond Production. , 1998, , 119-138.		1
142	Low-Temperature Reactions of Atomic Cobalt with CH2N2, CH4, CH3D, CH2D2, CHD3, CD4, H2, D2, and HD. Journal of the American Chemical Society, 1995, 117, 1387-1392.	6.6	47
143	Chlorineâ€Activated Diamond Chemical Vapor Deposition. Journal of the Electrochemical Society, 1994, 141, 3246-3249.	1.3	35
144	Quantitative In Situ Growth Measurements of Chlorine-Activated Homoepitaxial Diamond Cvd. Materials Research Society Symposia Proceedings, 1994, 349, 427.	0.1	7

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145	Synthesis and structure of the unligated carbene of chromium. Inorganic Chemistry, 1993, 32, 1529-1531.	1.9	11
146	Detection of a .sigma.-complex in the reaction of cobalt atoms with methane. Journal of the American Chemical Society, 1993, 115, 2039-2041.	6.6	28
147	Methyl halides as carbon sources in a hot-filament diamond CVD reactor: A new gas phase growth species. Journal of Materials Research, 1993, 8, 233-236.	1.2	39
148	Homoepitaxial Growth Rate Studies on Diamond (110), (111), and (100) Surfaces in a Hot-Filament Reactor. Materials Research Society Symposia Proceedings, 1992, 270, 341.	0.1	1
149	Mechanism for Step Growth on Diamond (100). Materials Research Society Symposia Proceedings, 1992, 280, 683.	0.1	2
150	Status Report on Second International Conference on New Diamond Science and Technology. Materials and Processing Report, 1991, 5, 6-7.	0.0	0
151	Mechanism of CVD diamond growth on diamond (111), (110) and (100) surfaces. Carbon, 1990, 28, 805.	5.4	2
152	Reactions of small carbon clusters with water in cryogenic matrixes: the FTIR spectrum of hydroxyethynyl carbene. The Journal of Physical Chemistry, 1990, 94, 7973-7977.	2.9	30
153	Mechanism of diamond film growth by hot-filament CVD: Carbon-13 studies. Journal of Materials Research, 1990, 5, 2405-2413.	1.2	93
154	Low-temperature reactions of atomic nickel with diazomethane. Inorganic Chemistry, 1990, 29, 4373-4376.	1.9	9
155	Synthesis and characterization of bis(trifluoromethyl)gold .mu.-halide dimers: x-ray structural characterization of [Au(CF3)2(.mu.-I)]2. Inorganic Chemistry, 1990, 29, 3252-3253.	1.9	16
156	Ellipsometric method for the measurement of temperature and optical constants of incandescent transition metals. Applied Optics, 1989, 28, 1885.	2.1	26
157	Infrared spectroscopic studies of the reactions of copper and ammonia in cryogenic argon matrices. Inorganic Chemistry, 1989, 28, 1599-1601.	1.9	20
158	Studies of Diamond Growth Mechanisms in a Hot Filament Reactor. Materials Research Society Symposia Proceedings, 1989, 162, 85.	0.1	7
159	Matrix isolation-Fourier transform infrared spectroscopy studies of flash pyrolysis of four coal tars. Journal of Analytical and Applied Pyrolysis, 1988, 14, 99-114.	2.6	6
160	Matrix isolation-Fourier transform infrared spectroscopy studies of slow pyrolysis processes for four coals. Journal of Analytical and Applied Pyrolysis, 1988, 14, 115-134.	2.6	4
161	Chemical reactions of carbon atoms and molecules from laser-induced vaporization of graphite, TaC and WC. Journal of Quantitative Spectroscopy and Radiative Transfer, 1988, 40, 439-447.	1.1	7
162	Characterization and novel low-temperature reactions of FeCH2 and N2FeCH2. Journal of the American Chemical Society, 1988, 110, 7975-7980.	6.6	36

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164	Low-temperature reactions of methane with photoexcited nickel atoms. Inorganic Chemistry, 1988, 27, 205-206.	1.9	29
165	Isolation and characterization of ZnCH2 by Fourier transform I.R. matrix isolation spectroscopy and its photolytic rearrangement to HZnCH. Journal of the Chemical Society Chemical Communications, 1987, , 1682.	2.0	19
166	Infrared spectroscopy and photochemistry of iron-ethylene oxide in cryogenic matrixes. The FTIR spectrum of vinyliron hydroxide. Journal of the American Chemical Society, 1987, 109, 4775-4780.	6.6	37
167	FTIR matrix isolation studies of the reactions of atomic and diatomic nickel with acetylene in solid argon. The photosynthesis of nickel vinylidene. Journal of the American Chemical Society, 1987, 109, 2402-2409.	6.6	57
168	Isolation and characterization of copper methylene (CuCH2) via FTIR matrix isolation spectroscopy. Journal of the American Chemical Society, 1987, 109, 4508-4513.	6.6	31
169	The isolation and characterization of copper methylene via matrix isolation spectroscopy. Tetrahedron Letters, 1987, 28, 1733-1736.	0.7	5
170	Infrared absorption characteristics of hydroxyl groups in coal tars. Fuel, 1987, 66, 51-54.	3.4	7
171	A Multisurface Matrix-Isolation Apparatus. Applied Spectroscopy, 1986, 40, 588-595.	1.2	28
172	Reactions of iron atoms with benzene and cyclohexadiene in argon matrixes: iron-benzene complexes and photolytic dehydrogenation of cyclohexadiene. Journal of the American Chemical Society, 1986, 108, 6621-6626.	6.6	28
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