W Brian Haynes

List of Publications by Citations

160 papers	6,567 citations	42 h-index	74 g-index
162 ext. papers	7,329 ext. citations	5.2 avg, IF	5.95 L-index

#	Paper	IF	Citations
160	Soot formation. *Progress in Energy and Combustion Science*, **1981**, 7, 229-273	33.6	859
159	Flow boiling heat transfer of Freon R11 and HCFC123 in narrow passages. *International Journal of Heat and Mass Transfer*, **2000**, 43, 3347-3358	4.9	224
158	On the CFD modelling of Taylor flow in microchannels. *Chemical Engineering Science*, **2009**, 64, 2941-2950	4.4	210
157	Pilot plant testing of continuous hydrothermal liquefaction of microalgae. *Algal Research*, **2013**, 2, 268-277	3	199
156	Effect of CO2 and steam gasification reactions on the oxy-combustion of pulverized coal char. *Combustion and Flame*, **2012**, 159, 3437-3447	5.3	184
155	Biocrude yield and productivity from the hydrothermal liquefaction of marine and freshwater green macroalgae. *Bioresource Technology*, **2014**, 155, 334-41	11	172
154	Effect of CO2 gasification reaction on oxy-combustion of pulverized coal char. *Proceedings of the Combustion Institute*, **2011**, 33, 1699-1706	5.9	134
153	Kinetic and Thermodynamic Sensitivity Analysis of the NO-Sensitised Oxidation of Methane. *Combustion Science and Technology*, **1996**, 115, 259-296	1.5	118
152	The oxidation of hydrogen cyanide in fuel-rich flames. *Combustion and Flame*, **1977**, 28, 113-121	5.3	117
151	Two-stage hydrothermal liquefaction of a high-protein microalga. *Algal Research*, **2015**, 8, 15-22	5	114
150	A CFD based combustion model of an entrained flow biomass gasifier. *Applied Mathematical Modelling*, **2000**, 24, 165-182	4.5	109
149	Reactions of ammonia and nitric oxide in the burnt gases of fuel-rich hydrocarbon-air flames. *Combustion and Flame*, **1977**, 28, 81-91	5.3	107
148	Factors governing the surface enrichment of fly ash in volatile trace species. *Journal of Colloid and Interface Science*, **1982**, 87, 266-278	9.3	101
147	Taylor Flow in Microchannels: A Review of Experimental and Computational Work. *Journal of Computational Multiphase Flows*, **2010**, 2, 1-31		99
146	CFD modelling of flow and heat transfer in the Taylor flow regime. *Chemical Engineering Science*, **2010**, 65, 2094-2107	4.4	97
145	Density functional study of the chemisorption of O2 on the zig-zag surface of graphite. *Combustion and Flame*, **2005**, 143, 629-643	5.3	81
144	Vaporization and condensation of mineral matter during pulverized coal combustion. *Proceedings of the Combustion Institute*, **1981**, 18, 1267-1274		81

143	The Catalytic Chemistry of Nitromethane over Co-ZSM5 and Other Catalysts in Connection with the Methane-NOxSCR Reaction. *Journal of Catalysis*, **1998**, 176, 329-343	7.3	80
142	Experimental and kinetic modelling study of H2S oxidation. *Proceedings of the Combustion Institute*, **2013**, 34, 625-632	5.9	73
141	Local condensation heat transfer rates in fine passages. *International Journal of Heat and Mass Transfer*, **2003**, 46, 4453-4466	4.9	73
140	Laminar flow and heat transfer in a periodic serpentine channel with semi-circular cross-section. *International Journal of Heat and Mass Transfer*, **2006**, 49, 2912-2923	4.9	72
139	A turnover model for carbon reactivity I. development. *Combustion and Flame*, **2001**, 126, 1421-1432	5.3	70
138	Hydrodynamics of liquid□quid Taylor flow in microchannels. *Chemical Engineering Science*, **2013**, 92, 180-189	4.4	67
137	CFD approaches for the simulation of hydrodynamics and heat transfer in Taylor flow. *Chemical Engineering Science*, **2011**, 66, 5575-5584	4.4	66
136	Periodic density functional study of Co3O4 surfaces. *Chemical Physics Letters*, **2011**, 502, 63-68	2.5	61
135	On the origin of power-law kinetics in carbon oxidation. *Proceedings of the Combustion Institute*, **2005**, 30, 2161-2168	5.9	61
134	The Surface Growth Phenomenon in Soot Formation. *Zeitschrift Fur Physikalische Chemie*, **1982**, 133, 201-213	3.1	61
133	Density functional study of the chemisorption of O2 on the armchair surface of graphite. *Proceedings of the Combustion Institute*, **2005**, 30, 2141-2149	5.9	55
132	Impact of tortuous geometry on laminar flow heat transfer in microchannels. *International Journal of Heat and Mass Transfer*, **2015**, 83, 382-398	4.9	54
131	Density functional study of the reaction of carbon surface oxides: the behavior of ketones. *Journal of Physical Chemistry A*, **2005**, 109, 3438-47	2.8	54
130	An experimental investigation of the mutually sensitised oxidation of nitric oxide and n-butane. *Proceedings of the Combustion Institute*, **1992**, 24, 899-907		54
129	Identification of a source of argon-ion-laser excited fluorescence in sooting flames. *Combustion and Flame*, **1981**, 43, 211-214	5.3	54
128	The effect of metal additives on the formation of soot in premixed flames. *Proceedings of the Combustion Institute*, **1979**, 17, 1365-1374		53
127	A Review of Terminology Used to Describe Soot Formation and Evolution under Combustion and Pyrolytic Conditions. *ACS Nano*, **2020**, 14, 12470-12490	16.7	53
126	Low-Reynolds number heat transfer enhancement in sinusoidal channels. *Chemical Engineering Science*, **2007**, 62, 694-702	4.4	52

125	Validation of a CFD model of Taylor flow hydrodynamics and heat transfer. *Chemical Engineering Science*, **2012**, 69, 541-552	4.4	50
124	Laminar Flow and Heat Transfer in a Periodic Serpentine Channel. *Chemical Engineering and Technology*, **2005**, 28, 353-361	2	50
123	From macroalgae to liquid fuel via waste-water remediation, hydrothermal upgrading, carbon dioxide hydrogenation and hydrotreating. *Energy and Environmental Science*, **2016**, 9, 1828-1840	35.4	49
122	Density functional study of the reaction of O2 with a single site on the zigzag edge of graphene. *Proceedings of the Combustion Institute*, **2011**, 33, 1851-1858	5.9	48
121	Pathways for conversion of char nitrogen to nitric oxide during pulverized coal combustion. *Combustion and Flame*, **2009**, 156, 574-587	5.3	45
120	Heat transfer in well-characterised Taylor flow. *Chemical Engineering Science*, **2010**, 65, 6379-6388	4.4	45
119	Taylor flow heat transfer in microchannels: Unification of liquid–liquid and gas–liquid results. *Chemical Engineering Science*, **2015**, 138, 140-152	4.4	42
118	Laminar flow and heat transfer in a periodic trapezoidal channel with semi-circular cross-section. *International Journal of Heat and Mass Transfer*, **2007**, 50, 3471-3480	4.9	42
117	Reaction of hydrogen with Ag(111): binding states, minimum energy paths, and kinetics. *Journal of Physical Chemistry B*, **2006**, 110, 17145-54	3.4	42
116	Evaluation of thermal desorption spectra for heterogeneous surfaces: application to carbon surface oxides. *Surface Science*, **1993**, 297, 312-326	1.8	42
115	Kinetics and modeling of the H2?O2?NOx system. *International Journal of Chemical Kinetics*, **1995**, 27, 1165-1178	1.4	42
114	Continuous hydrothermal liquefaction of macroalgae in the presence of organic co-solvents. *Algal Research*, **2016**, 17, 185-195	5	41
113	An experimental study of gas–liquid flow in a narrow conduit. *International Journal of Heat and Mass Transfer*, **2000**, 43, 2313-2324	4.9	40
112	Film and slug behaviour in intermittent slug–annular microchannel flows. *Chemical Engineering Science*, **2010**, 65, 5344-5355	4.4	39
111	Density Functional Study of the Chemisorption of O2 Across Two Rings of the Armchair Surface of Graphite. *Journal of Physical Chemistry C*, **2007**, 111, 5465-5473	3.8	39
110	Formate species in the low-temperature oxidation of dimethyl ether. *Chemosphere*, **2001**, 42, 583-9	8.4	38
109	Pre- and post-harvest treatment of macroalgae to improve the quality of feedstock for hydrothermal liquefaction. *Algal Research*, **2014**, 6, 22-31	5	37
108	Thermohydraulic performance of a periodic trapezoidal channel with a triangular cross-section. *International Journal of Heat and Mass Transfer*, **2008**, 51, 2925-2929	4.9	36

107	Rate coefficient of H+O2+M-HO2+M (M=H2O, N2, Ar, CO2). *Proceedings of the Combustion Institute*, **1998**, 27, 185-191		35
106	Thermohydraulics of square-section microchannels following a serpentine path. *Microfluidics and Nanofluidics*, **2006**, 2, 195-204	2.8	35
105	Subcooled flow boiling heat transfer in narrow passages. *International Journal of Heat and Mass Transfer*, **2003**, 46, 3673-3682	4.9	35
104	Effect of Flow Characteristics on Taylor Flow Heat Transfer. *Industrial & Engineering Chemistry Research*, **2012**, 51, 2010-2020	3.9	34
103	Laminar heat transfer simulations for periodic zigzag semicircular channels: Chaotic advection and geometric effects. *International Journal of Heat and Mass Transfer*, **2013**, 62, 391-401	4.9	34
102	Gas-phase interaction of H2S with O2: A kinetic and quantum chemistry study of the potential energy surface. *Journal of Physical Chemistry A*, **2005**, 109, 1057-62	2.8	34
101	Catalytic combustion of soot on metal oxides and their supported metal chlorides. *Catalysis Communications*, **2003**, 4, 591-596	3.2	34
100	Hydrocarbon-NOx interactions at low temperatures1.Conversion of NO to NO2 promoted by propane and the formation of HNCO. *Proceedings of the Combustion Institute*, **1994**, 25, 1003-1010		34
99	Oxygen chemisorption on carbon. *Proceedings of the Combustion Institute*, **1992**, 24, 1199-1206		34
98	Chaotic advection in steady laminar heat transfer simulations: Periodic zigzag channels with square cross-sections. *International Journal of Heat and Mass Transfer*, **2013**, 57, 274-284	4.9	33
97	The influence of gaseous additives on the formation of soot in premixed flames. *Proceedings of the Combustion Institute*, **1982**, 19, 1379-1385		33
96	Transient laminar heat transfer simulations in periodic zigzag channels. *International Journal of Heat and Mass Transfer*, **2014**, 71, 758-768	4.9	32
95	Kinetic and thermodynamic analysis of the fate of sulphur compounds in gasification products. *Fuel* , **2004**, 83, 2133-2138	7.1	31
94	Soot surface growth at active sites. *Combustion and Flame*, **1991**, 85, 523-525	5.3	31
93	Local site selectivity and conformational structures in the glycosidic bond scission of cellobiose. *Journal of Physical Chemistry B*, **2011**, 115, 10682-91	3.4	29
92	Interactions of gaseous no with char during the low-temperature oxidation of coal chars. *Proceedings of the Combustion Institute*, **2000**, 28, 2171-2179	5.9	29
91	Implementation of a height function method to alleviate spurious currents in CFD modelling of annular flow in microchannels. *Applied Mathematical Modelling*, **2015**, 39, 4665-4686	4.5	28
90	An Exploratory Flow Reactor Study of H2S Oxidation at 30100 Bar. *International Journal of Chemical Kinetics*, **2017**, 49, 37-52	1.4	28

89	Site Isolation Leads to Stable Photocatalytic Reduction of CO2 over a Rhenium-Based Catalyst. *Chemistry - A European Journal*, **2015**, 21, 18576-9	4.8	28
88	Scaleable, microstructured plant for steam reforming of methane. *Chemical Engineering Journal*, **2008**, 135, S9-S16	14.7	28
87	Cobra probe measurements of mean velocities, Reynolds stresses and higher-order velocity correlations in pipe flow. *Experimental Thermal and Fluid Science*, **2000**, 21, 206-217	3	28
86	Gravitational effect on Taylor flow in horizontal microchannels. *Chemical Engineering Science*, **2012**, 69, 553-564	4.4	27
85	The fate of char-nitrogen in low-temperature oxidation. *Proceedings of the Combustion Institute*, **1998**, 27, 3069-3075		27
84	Mineral Carbonation as the Core of an Industrial Symbiosis for Energy-Intensive Minerals Conversion. *Journal of Industrial Ecology*, **2012**, 16, 94-104	7.2	26
83	Insight into oxygen stability and vacancy formation on Co3O4 model slabs. *Computational Materials Science*, **2013**, 72, 15-25	3.2	26
82	The behavior of nitrogen species in fuel rich hydrocarbon flames. *Proceedings of the Combustion Institute*, **1975**, 15, 1103-1112		26
81	DFT analysis of the reaction paths of formaldehyde decomposition on silver. *Journal of Physical Chemistry A*, **2009**, 113, 8125-31	2.8	25
80	Methanol and Methoxide Decomposition on Silver. *Journal of Physical Chemistry C*, **2007**, 111, 9867-9876	3.8	25
79	C1/C2 chemistry in fuel-rich post-flame gases: Detailed kinetic modelling. *Proceedings of the Combustion Institute*, **1994**, 25, 909-917		25
78	Computational fluid dynamics modelling of an entrained flow biomass gasifier. *Applied Mathematical Modelling*, **1998**, 22, 747-757	4.5	24
77	Oxyreactivity of carbon surface oxides. *Proceedings of the Combustion Institute*, **2000**, 28, 2197-2203	5.9	24
76	The mutually sensitied oxidation of ethylene and NO: An experimental and kinetic modeling study. *Proceedings of the Combustion Institute*, **1996**, 26, 589-596		22
75	Interaction of carbon monoxide with carbon and carbon surface oxides. *Energy & Fuels*, **1992**, 6, 154-159	4.1	22
74	On the importance of upstream compressibility in microchannel boiling heat transfer. *International Journal of Heat and Mass Transfer*, **2013**, 58, 503-512	4.9	21
73	Role of the direct reaction H2S + SO2 in the homogeneous Claus reaction. *Journal of Physical Chemistry A*, **2005**, 109, 8180-6	2.8	21
72	Effect of boundary layer reactions on the conversion of CHAR-N to NO, N 2 O, and HCN at fluidized-bed combustion conditions. *Combustion Science and Technology*, **2002**, 174, 43-71	1.5	21

71	Formation of metastable oxide complexes during the oxidation of carbons at low temperatures. *Proceedings of the Combustion Institute*, **1991**, 23, 1191-1197		21
70	Kinetic studies of graphon and coal-char reaction with NO and O2: direct non-linear regression from TG curves. *Fuel Processing Technology*, **2005**, 86, 651-660	7.2	20
69	Numerical assessment of Tognotti determination of CO2/CO production ratio during char oxidation. *Combustion and Flame*, **2013**, 160, 1827-1834	5.3	19
68	Quantum chemical and RRKM calculations of reactions in the H/S/O system. *Proceedings of the Combustion Institute*, **2007**, 31, 257-265	5.9	19
67	Theoretical study of hydrogen abstraction and sulfur insertion in the reaction H2S + S. *Journal of Physical Chemistry A*, **2008**, 112, 3239-47	2.8	18
66	Simulation of the ignition of lean methane mixtures using CFD modelling and a reduced chemistry mechanism. *Applied Mathematical Modelling*, **2000**, 24, 689-696	4.5	18
65	CFD simulation of Taylor flow: Should the liquid film be captured or not?. *Chemical Engineering Science*, **2017**, 167, 334-335	4.4	17
64	Conformational and thermodynamic properties of gaseous levulinic acid. *Journal of Physical Chemistry A*, **2010**, 114, 12323-9	2.8	17
63	The reactions of nitromethane in the gas phase and on a Co-ZSM5 catalyst under the conditions of the methane/NOx SCR reaction. *Catalysis Letters*, **1997**, 46, 207-212	2.8	17
62	Combustion research for chemical processing. *Proceedings of the Combustion Institute*, **2019**, 37, 1-32	5.9	16
61	Chemical Engineering Curriculum Renewal. *Education for Chemical Engineers*, **2006**, 1, 116-125	2.4	16
60	The effect of alkali metals on a laminar ethylene diffusion flame. *Combustion and Flame*, **1993**, 92, 266-273	5.3	16
59	Laminar Flow and Heat Transfer in Periodic Serpentine Mini-Channels. *Journal of Enhanced Heat Transfer*, **2006**, 13, 309-320	1.7	16
58	The role of oxygen during the catalytic oxidation of ammonia on Co3O4(1 0 0). *Applied Surface Science*, **2014**, 316, 355-365	6.7	15
57	Hydrogen from Formic Acid via Its Selective Disproportionation over Nanodomain-Modified Zeolites. *ACS Catalysis*, **2015**, 5, 4353-4362	13.1	14
56	Computational study of the reaction SH + O2. *Journal of Physical Chemistry A*, **2009**, 113, 2975-81	2.8	14
55	Numerical simulation of annular flow hydrodynamics in microchannels. *Computers and Fluids*, **2016**, 133, 90-102	2.8	14
54	In situ synchrotron XRD analysis of the kinetics of spodumene phase transitions. *Physical Chemistry Chemical Physics*, **2018**, 20, 10753-10761	3.6	13

53	An experimental and numerical study of surface chemical interactions in the combustion of propylene over platinum. *Combustion and Flame*, **2013**, 160, 473-485	5.3	13
52	Demonstration Plant for Distributed Production of Hydrogen from Steam Reforming of Methane. *Chemical Engineering Research and Design*, **2005**, 83, 619-625	5.5	13
51	The Formation of Nitric Oxide in Fuel-Rich Flames. *Combustion Science and Technology*, **1973**, 8, 159-164	1.5	13
50	Acid-Catalyzed Ring Opening of Furan in Aqueous Solution. *Energy & Fuels*, **2018**, 32, 4139-4148	4.1	12
49	Heterogeneous fixation of N2: Investigation of a novel mechanism for formation of NO. *Proceedings of the Combustion Institute*, **2009**, 32, 1973-1980	5.9	12
48	Theoretical study of reactions in the multiple well H2/S2 system. *Journal of Physical Chemistry A*, **2009**, 113, 8299-306	2.8	12
47	Kinetic and modeling studies of the reaction S + H2S. *Proceedings of the Combustion Institute*, **2011**, 33, 459-465	5.9	12
46	Kinetic Insights into the Hydrothermal Decomposition of Dihydroxyacetone: A Combined Experimental and Modeling Study. *Industrial & Engineering Chemistry Research*, **2015**, 54, 8437-8447	3.9	11
45	The Formation of Methyl Isocyanate during the Reaction of Nitroethane over Cu-MFI under Hydrocarbon-Selective Catalytic Reduction Conditions. *Journal of Catalysis*, **2001**, 203, 487-494	7.3	11
44	Mechanistic Insights and Kinetic Modeling of Cellobiose Decomposition in Hot Compressed Water. *Energy & Fuels*, **2017**, 31, 2203-2216	4.1	10
43	Surface heterogeneity in the formation and decomposition of carbon surface oxides. *Proceedings of the Combustion Institute*, **1996**, 26, 3119-3125		10
42	The effect of bulk gas diffusivity on apparent pulverized coal char combustion kinetics. *Proceedings of the Combustion Institute*, **2019**, 37, 3071-3079	5.9	10
41	Hydrogen from formic acid through its selective disproportionation over sodium germanate--a non-transition-metal catalysis system. *Angewandte Chemie - International Edition*, **2014**, 53, 11275-9	16.4	9
40	The catalytic oxidation of NH3 on Co3O4(110): A theoretical study. *Proceedings of the Combustion Institute*, **2017**, 36, 4365-4373	5.9	9
39	A comparative experimental study of the interactions between platinum and a range of hydrocarbon fuels. *Fuel*, **2013**, 105, 523-534	7.1	9
38	Fate of Cu, Cr, and As during the Combustion Stages of CCA-Treated Wood Fuel Particles. *Energy & Fuels*, **2008**, 22, 1589-1597	4.1	9
37	LOCAL FLOW BOILING HEAT TRANSFER COEFFICIENTS IN NARROW CONDUITS. *Multiphase Science and Technology*, **2000**, 12, 16	1	9
36	The Role of Atomic Oxygen and Ozone in the Plasma and Post-plasma Catalytic Removal of N2O. *Plasma Chemistry and Plasma Processing*, **2019**, 39, 89-108	3.6	9

35	Formation of N2 and N2O in industrial combustion of ammonia over platinum. *Proceedings of the Combustion Institute*, **2015**, 35, 2215-2222	5.9	8
34	Effect of the Local Atomic Ordering on the Stability of β-Spodumene. *Inorganic Chemistry*, **2016**, 55, 6426-34	5.1	8
33	Process design and performance of a microstructured convective steam–methane reformer. *Catalysis Today*, **2011**, 178, 34-41	5.3	8
32	Deportment and management of metals produced during combustion of CCA-treated timbers. *Journal of Hazardous Materials*, **2007**, 139, 500-5	12.8	8
31	The reactions of hydrogen and carbon monoxide with surface-bound oxides on carbon. *Combustion and Flame*, **2000**, 120, 515-525	5.3	8
30	Molecular modelling of the decomposition of NH3 over CoO(100). *Materials Chemistry and Physics*, **2015**, 156, 141-149	4.4	7
29	First High power test results for 2.1 GHz superconducting photonic band gap accelerator cavities. *Physical Review Letters*, **2012**, 109, 164801	7.4	7
28	Molecular dynamics study of Acid-catalyzed hydrolysis of dimethyl ether in aqueous solution. *Journal of Physical Chemistry B*, **2011**, 115, 8199-206	3.4	7
27	Reactions of Hydroxyl on the Topmost Layer of Ag(111): A Density Functional Theory Study. *Journal of Physical Chemistry C*, **2007**, 111, 1333-1341	3.8	7
26	A general implementation of the H1 boundary condition in CFD simulations of heat transfer in swept passages. *International Journal of Heat and Mass Transfer*, **2007**, 50, 1833-1842	4.9	7
25	Nitric oxide formation during the combustion of coal. *Combustion and Flame*, **1974**, 23, 277-278	5.3	7
24	Heat exchanger specification: Coupling design and surface performance evaluation. *Chemical Engineering Research and Design*, **2015**, 93, 392-401	5.5	6
23	ASSESSMENT OF THE SST AND OMEGA-BASED REYNOLDS STRESS MODELS FOR THE PREDICTION OF FLOW AND HEAT TRANSFER IN A SQUARE-SECTION U-BEND. *Computational Thermal Sciences*, **2009**, 1, 385-403	1.9	6
22	The effect of surface coverage on N, NO and NO formation over Pt(111). *Physical Chemistry Chemical Physics*, **2018**, 20, 25314-25323	3.6	6
21	Influence of Tortuous Geometry on the Hydrodynamic Characteristics of Laminar Flow in Microchannels. *Chemical Engineering and Technology*, **2015**, 38, 1406-1415	2	5
20	Experimental Investigation of Taylor and Intermittent Slug-annular/Annular Flow in Microchannels. *Experimental Heat Transfer*, **2014**, 27, 360-375	2.4	5
19	Three Dimensional Effects in Taylor Flow in Circular Microchannels. *Houille Blanche*, **2013**, 99, 60-67	0.3	5
18	Production of nitrogen compounds from molecular nitrogen in fuel-rich hydrocarbon-air flames. *Fuel*, **1977**, 56, 199-203	7.1	5

17	Process intensification writ large with microchannel absorption in nitric acid production. *Chemical Engineering Science*, **2017**, 169, 140-150	4.4	4
16	Reaction Analysis of Diaryl Ether Decomposition under Hydrothermal Conditions. *Industrial & Engineering Chemistry Research*, **2018**, 57, 2014-2022	3.9	4
15	Simulation of microchannel flows using a 3D height function formulation for surface tension modelling. *International Communications in Heat and Mass Transfer*, **2017**, 89, 122-133	5.8	4
14	N2O formation and dissociation during ammonia combustion: A combined DFT and experimental study. *Proceedings of the Combustion Institute*, **2017**, 36, 637-644	5.9	3
13	Raising gradient limitations in 2.1 GHz superconducting photonic band gap accelerator cavities. *Applied Physics Letters*, **2014**, 104, 242603	3.4	3
12	FTIR spectroscopy measurements and CFD simulations of the pollutants arising from unflued combustion in a room. *Building and Environment*, **2001**, 36, 597-603	6.5	3
11	Transport mechanisms in oil shale drying and pyrolysis. *Energy & Fuels*, **1992**, 6, 831-835	4.1	3
10	Electrochemical oxidation of nitrogen-rich post-hydrothermal liquefaction wastewater. *Algal Research*, **2020**, 48, 101919	5	3
9	Confined Ru Nanocatalysts on Surface to Enhance Ammonia Synthesis: An In situ ETEM Study. *ChemCatChem*, **2021**, 13, 534-538	5.2	3
8	Comment on Trondheim Paper. *Algal Research*, **2015**, 9, 322	5	2
7	Hydrogen from Formic Acid through Its Selective Disproportionation over Sodium Germanate: A Non-Transition-Metal Catalysis System. *Angewandte Chemie*, **2014**, 126, 11457-11461	3.6	2
6	Active Sites in Soot Growth. *Springer Series in Chemical Physics*, **1994**, 275-289	0.3	2
5	Modeling of Microfluidic Devices **2013**, 117-144		1
4	Transient phenomena in the steam-carbon reaction. *Proceedings of the Combustion Institute*, **1988**, 21, 203-210		1
3	Cryogenic testing of the 2.1 GHz five-cell superconducting RF cavity with a photonic band gap coupler cell. *Applied Physics Letters*, **2016**, 108, 222603	3.4	0
2	Hydrothermal Decomposition of Glucose in the Presence of Ammonium. *Industrial & Engineering Chemistry Research*, **2021**, 60, 10129-10138	3.9	0
1	Energy profiles of hydrogen migration in the early stages of lizardite dehydroxylation. *Computational Materials Science*, **2015**, 98, 435-445	3.2	