Wei-Jun Zheng

List of Publications by Year
in descending order

112	2,737	159358	223531
papers	citations	30 h-index	46 g-index

114	114	114	1153
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vanadium-doped small silicon clusters: Photoelectron spectroscopy and density-functional calculations. Chemical Physics Letters, 2010, 487, 204-208.	1.2	180
2	Onset of Metallic Behavior in Magnesium Clusters. Physical Review Letters, 2002, 89, 213403.	2.9	142
3	Photoelectron spectroscopy of chromium-doped silicon cluster anions. Journal of Chemical Physics, 2005, 122, 071101.	1.2	100
4	Magic numbers in copper-doped aluminum cluster anions. Journal of Chemical Physics, 2001, 114, 5514-5519.	1.2	99
5	Discovery of a silicon-based ferrimagnetic wheel structure in V_xSi₁₂^{â^’} (x = 1â€“3) clusters: photoelectron spectroscopy and density functional theory investigation. Nanoscale, 2014, 6, 14617-14621.	2.8	99
6	Structures and magnetic properties of CrSinâ^’ (n = 3â€“12) clusters: Photoelectron spectroscopy and density functional calculations. Journal of Chemical Physics, 2012, 137, 064307.	1.2	70
7	Structures and Electronic Properties of V₃Si_n^{â€“} (n =) Tj ETQq1 1 0.784314 rgBT / 10987-10994.	1.5	63
8	Photoelectron Spectroscopy and Density Functional Calculations of VGe_n^{â€“} (n = 3â€“12) Clusters. Journal of Physical Chemistry C, 2015, 119, 11048-11055.	1.5	63
9	Photoelectron spectroscopy and density-functional study of Sc2Sinâ^’ (n=2â€“6) clusters. Chemical Physics Letters, 2010, 498, 22-26.	1.2	60
10	Structural and Magnetic Properties of CoGe_n^{â^’} (n=2â€“11) Clusters: Photoelectron Spectroscopy and Density Functional Calculations. ChemPhysChem, 2014, 15, 3987-3993.	1.0	57
11	Microsolvation of LiI and CsI in Water: Anion Photoelectron Spectroscopy and ab initio Calculations. Journal of the American Chemical Society, 2013, 135, 5190-5199.	6.6	54
12	Negative Ion Photoelectron Spectroscopy Reveals Thermodynamic Advantage of Organic Acids in Facilitating Formation of Bisulfate Ion Clusters: Atmospheric Implications. Journal of Physical Chemistry Letters, 2013, 4, 779-785.	2.1	53
13	Photoelectron spectroscopy and density functional calculations of CuSinâ^’ (n = 4â€“18) clusters. Journal of Chemical Physics, 2012, 136, 104308.	1.2	52
14	Structures and photoelectron spectroscopy of Cun(BO2)mâ^’ (n, m = 1, 2) clusters: Observation of hyperhalogen behavior. Journal of Chemical Physics, 2011, 134, 094309.	1.2	51
15	Structural and Electronic Properties of AuSi_n^{â€“} (n = 4â€“12) Clusters: Photoelectron Spectroscopy and Ab Initio Calculations. Journal of Physical Chemistry C, 2016, 120, 25628-25637.	1.5	49
16	Transition from exohedral to endohedral structures of AuGe_n^{â^’} (n = 2â€“12) clusters: photoelectron spectroscopy and ab initio calculations. Physical Chemistry Chemical Physics, 2016, 18, 20321-20329.	1.3	48
17	Smallest fullerene-like silicon cage stabilized by a V2 unit. Journal of Chemical Physics, 2014, 140, 024308.	1.2	47
18	Probing the structural evolution of ruthenium doped germanium clusters: Photoelectron spectroscopy and density functional theory calculations. Scientific Reports, 2016, 6, 30116.	1.6	45

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19	The structural and electronic properties of NbSi_n^{â^'/0}(n = 3â€“12) clusters: anion photoelectron spectroscopy and ab initio calculations. Nanoscale, 2016, 8, 19769-19778.	2.8	45
20	Probing Structural, Electronic, and Magnetic Properties of Iron-Doped Semiconductor Clusters Fe₂Ge_n^{â€“/0} (n = 3â€“12) via Joint Photoelectron Spectroscopy and Density Functional Study. Journal of Physical Chemistry C, 2017, 121, 7037-7046.	1.5	42
21	Anion Photoelectron Spectroscopy and Theoretical Investigation on Nb₂Si_n^{â€“}^{/0} (n = 2â€“12) Clusters. Journal of Physical Chemistry C, 2017, 121, 11851-11861.	1.5	42
22	Catalytic CO Oxidation by O₂ Mediated by Nobleâ€Metalâ€Free Cluster Anions Cu₂VO_{3â€“5}^{â^'}. Angewandte Chemie - International Edition, 2018, 57, 3349-3353.	7.2	42
23	Stable Saltâ€“Water Cluster Structures Reflect the Delicate Competition between Ionâ€“Water and Waterâ€“Water Interactions. Journal of Physical Chemistry B, 2014, 118, 743-751.	1.2	39
24	Photoelectron Spectroscopy and Theoretical Study of Cr_nSi_{15â€“n}^{â€“} (n = 1â€“3): Effects of Doping Cr Atoms on the Structural and Magnetic Properties. Journal of Physical Chemistry A, 2018, 122, 9886-9893.	1.1	38
25	Emergence of Solvent-Separated Na⁺â€“Cl^{â€“} Ion Pair in Salt Water: Photoelectron Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry Letters, 2017, 8, 13-20.	2.1	37
26	Structural and bonding properties of ScSi ^{â^'} _n (n = 2 â^¼ 6) clusters: photoelectron spectroscopy and density functional calculations. Chinese Physics B, 2011, 20, 043102.	0.7	34
27	Structural evolution and bonding properties of Au2Sinâ^'/0 (n = 1â€“7) clusters: Anion photoelectron spectroscopy and theoretical calculations. Journal of Chemical Physics, 2018, 148, 244306.	1.2	33
28	Photoelectron spectroscopy of nickel-benzene cluster anions. Journal of Chemical Physics, 2005, 122, 044306.	1.2	32
29	Structural and magnetic properties of FeGenâ^'/0 (n = 3-12) clusters: Mass-selected anion photoelectron spectroscopy and density functional theory calculations. Journal of Chemical Physics, 2017, 147, 234310.	1.2	32
30	Structural Evolution of B₂Si_n^{â€“/0} (n = 3â€“12) Clusters: Size-Selected Anion Photoelectron Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry C, 2018, 122, 2391-2401.	1.5	31
31	Recent progress in theoretical and experimental studies of metal-doped silicon clusters: Trend among elements of periodic table. Coordination Chemistry Reviews, 2020, 403, 213095.	9.5	30
32	Photoassisted Selective Steam and Dry Reforming of Methane to Syngas Catalyzed by Rhodiumâ€“Vanadium Bimetallic Oxide Cluster Anions at Room Temperature. Angewandte Chemie - International Edition, 2020, 59, 21216-21223.	7.2	28
33	Hydrogen bonds in the nucleobase-gold complexes: Photoelectron spectroscopy and density functional calculations. Journal of Chemical Physics, 2012, 136, 014305.	1.2	27
34	Structural and bonding properties of small TiGe_n^{â^'} (n = 2â€“6) clusters: photoelectron spectroscopy and density functional calculations. RSC Advances, 2014, 4, 25963-25968.	1.7	27
35	Structures and electronic properties of B3Sinâ^' (n = 4â€“10) clusters: A combined ab initio and experimental study. Journal of Chemical Physics, 2017, 146, 044306.	1.2	27
36	Photoelectron spectroscopy and density functional calculations of AgSinâ^' (n = 3â€“12) clusters. Journal of Chemical Physics, 2013, 138, 244312.	1.2	26

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37	Structural evolution and electronic properties of CoSi_n^{â˜’} (n = 3â€“12) clusters: mass-selected anion photoelectron spectroscopy and quantum chemistry calculations. Physical Chemistry Chemical Physics, 2019, 21, 6207-6215.	1.3	24
38	A joint experimental and theoretical study on structural, electronic, and magnetic properties of MnGenâ˜’ (n = 3â€“14) clusters. Journal of Chemical Physics, 2021, 154, 204302.	1.2	24
39	Microscopic solvation of NaBO2 in water: anion photoelectron spectroscopy and ab initio calculations. Physical Chemistry Chemical Physics, 2011, 13, 15865.	1.3	23
40	Photoelectron spectroscopy of B4O4â˜’: Dual 3c-4e Ï€ hyperbonds and rhombic 4c-4e o-bond in boron oxide clusters. Journal of Chemical Physics, 2015, 142, 134305.	1.2	23
41	Photoelectron spectroscopy of lithium and gold alloyed boron oxide clusters: charge transfer complexes, covalent gold, hyperhalogen, and dual three-center four-electron hyperbonds. Physical Chemistry Chemical Physics, 2014, 16, 5129.	1.3	22
42	Direct Conversion of Methane with Carbon Dioxide Mediated by RhVO₃^{â˜’} Cluster Anions. Angewandte Chemie - International Edition, 2019, 58, 17287-17292.	7.2	21
43	Structural evolution and magnetic properties of anionic clusters Cr₂Ge_n (nâ€‰â€‰=â€‰â€‰3â€“14): photoelectron spectroscopy and density functional theory computation. Journal of Physics Condensed Matter, 2018, 30, 335501.	1.7	20
44	Photoelectron spectroscopy and theoretical study of Al_nC₅^{â˜’/0} (n = 1â€“5) clusters: structural evolution, relative stability of star-like clusters, and planar tetracoordinate carbon structures. Physical Chemistry Chemical Physics, 2021, 23, 1967-1975.	1.3	20
45	Microsolvation of sodium acetate in water: Anion photoelectron spectroscopy and ab initio calculations. Journal of Chemical Physics, 2015, 143, 054302.	1.2	19
46	Microsolvation of LiBO2 in water: anion photoelectron spectroscopy and ab initio calculations. Physical Chemistry Chemical Physics, 2015, 17, 9135-9147.	1.3	18
47	Photoelectron Spectroscopy and Density Functional Calculations of TiGenâ˜’ (n=7â€“12) Clusters. Chinese Journal of Chemical Physics, 2016, 29, 123-128.	0.6	18
48	Structural Evolution and Electronic Properties of TaSi_{n^{â€“/0}} (n =) Tj ETQq0 0 0 rgBT /Overlock 1 Journal of Physical Chemistry A, 2020, 124, 9818-9831.	1.1	18
49	Photoelectron Spectroscopy and ab initio Calculations of Li(H₂O)_n^{â€“} and Cs(H₂O)_n^{â€“} (n = 1â€“6) Clusters. Journal of Physical Chemistry A, 2015, 119, 2845-2856.	1.1	17
50	Structural evolution and bonding properties of BSinâ˜’/ (n = 4â€“12) clusters: Size-selected anion photoelectron spectroscopy and theoretical calculations. Journal of Chemical Physics, 2018, 149, 174314.	1.2	17
51	Photoelectron spectroscopy and density functional calculations of CunBO2(OH)â˜’ (n=1,2) clusters. Chemical Physics Letters, 2012, 545, 21-25.	1.2	16
52	Photoelectron spectroscopy and density functional study of ConC2â˜’ (n = 1â€“5) clusters. Physical Chemistry Chemical Physics, 2014, 16, 5434.	1.3	16
53	Experimental observation of TiN₁₂⁺ cluster and theoretical investigation of its stable and metastable isomers. Chemical Science, 2015, 6, 4723-4729.	3.7	16
54	Structural Evolution and Electronic Properties of V_nC₂^{0/â€“} and V_nC₄^{0/â€“} (n = 1â€“6) Clusters: Insights from Photoelectron Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry A, 2016, 120, 1520-1528.	1.1	16

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55	Anomalous Property of Ag(BO₂)₂ Hyperhalogen: Does Spinâ€“Orbit Coupling Matter?. ChemPhysChem, 2013, 14, 3303-3308.	1.0	15
56	Theoretical and experimental studies of the interactions between Au2â¯ and nucleobases. Physical Chemistry Chemical Physics, 2014, 16, 2928.	1.3	15
57	Gas phase anion photoelectron spectroscopy and theoretical investigation of gold acetylide species. Journal of Chemical Physics, 2017, 146, 194303.	1.2	15
58	Modification of Reflectron Time-of-Flight Mass Spectrometer for Photodissociation of Mass-Selected Cluster Ions. Chinese Journal of Chemical Physics, 2009, 22, 655-662.	0.6	14
59	Photoelectron spectroscopy and density functional calculations of FenBO2â¯ clusters. Journal of Chemical Physics, 2010, 132, 074308.	1.2	14
60	Structures and chemical bonding of B3O3â¯/0 and B3O3Hâ¯/0: A combined photoelectron spectroscopy and first-principles theory study. Journal of Chemical Physics, 2016, 144, 124301.	1.2	14
61	Adsorption of water molecules on sodium chloride trimer. Theoretical Chemistry Accounts, 2014, 133, 1.	0.5	13
62	On the dissolution of lithium sulfate in water: anion photoelectron spectroscopy and density functional theory calculations. Physical Chemistry Chemical Physics, 2015, 17, 5624-5631.	1.3	13
63	Spinâ€“Orbit Splittings and Low-Lying Electronic States of AuSi and AuGe: Anion Photoelectron Spectroscopy and ab Initio Calculations. Journal of Physical Chemistry A, 2018, 122, 3374-3382.	1.1	13
64	Catalytic CO Oxidation by O₂ Mediated by Nobleâ€Metalâ€Free Cluster Anions Cu₂VO_{3â€“5}^{â¯}. Angewandte Chemie, 2018, 130, 3407-3411.	1.6	13
65	Anion Photoelectron Spectroscopy and Theoretical Studies of Al₄C₆^{â€“/0}: Global Minimum Triangle-Shaped Structures and Hexacoordinated Aluminum. Journal of Physical Chemistry A, 2021, 125, 302-307.	1.1	13
66	Adsorption of C₂H Radical on Cobalt Clusters: Anion Photoelectron Spectroscopy and Density Functional Calculations. Journal of Physical Chemistry A, 2011, 115, 182-186.	1.1	12
67	Identification of hyperhalogens in Ag_n(BO₂)_m (n = 1â€“3, m = 1â€“2) clusters: anion photoelectron spectroscopy and density functional calculations. Physical Chemistry Chemical Physics, 2014, 16, 26067-26074.	1.3	12
68	Initial hydration processes of magnesium chloride: size-selected anion photoelectron spectroscopy and ab initio calculations. Physical Chemistry Chemical Physics, 2017, 19, 15562-15569.	1.3	12
69	Geometric Structures and Electronic Properties of AlnV0/â€“ (n = 5â€“14) Clusters: Photoelectron Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry C, 2019, 123, 1931-1938.	1.5	12
70	On the interaction of electrons with betaine zwitterions. Journal of Chemical Physics, 2005, 122, 101103.	1.2	11
71	Structures and electronic properties of B₂Si₆^{â¯/0/+}: anion photoelectron spectroscopy and theoretical calculations. RSC Advances, 2016, 6, 62165-62171.	1.7	11
72	Initial hydration behavior of sodium iodide dimer: photoelectron spectroscopy and ab initio calculations. Physical Chemistry Chemical Physics, 2016, 18, 557-565.	1.3	11

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73	Mass Spectrometry and Theoretical Investigation of VN_n⁺ (n = 8,) Tj ETQq1 1 0.784314 rgBT	1.1	11
74	Molecular dynamics simulation, ab initio calculation, and size-selected anion photoelectron spectroscopy study of initial hydration processes of calcium chloride. Journal of Chemical Physics, 2018, 148, 222839.	1.2	11
75	Photodissociation and Density Functional Calculations of Small VmOn+ Clusters. Chinese Journal of Chemical Physics, 2011, 24, 572-579.	0.6	10
76	Nonconventional Hydrogen Bonds between Silver Anion and Nucleobases: Size-Selected Anion Photoelectron Spectroscopy and Density Functional Calculations. Journal of Physical Chemistry A, 2017, 121, 8973-8981.	1.1	10
77	Appearance of V-encapsulated tetragonal prism motifs in VSi₁₀^{â^'} and VSi₁₁^{â^'} clusters. Physical Chemistry Chemical Physics, 2020, 22, 22989-22996.	1.3	10
78	Photoelectron spectroscopy and density functional theory study of ConOâ^' (n=1â€“3). Chemical Physics Letters, 2013, 575, 12-17.	1.2	9
79	Photoelectron spectroscopy and density functional calculations of CnSmâ^' (n = 2â€“7; m = 1, 2) clusters. Physical Chemistry Chemical Physics, 2015, 17, 31011-31022.	1.3	9
80	Structural evolution and electronic properties of Au2Genâ^'/0 (n=1â^'8) clusters: Anion photoelectron spectroscopy and theoretical calculations. Chinese Journal of Chemical Physics, 2019, 32, 229-240.	0.6	9
81	Photodissociation and density functional calculations of A 2 M + and G 2 M + (A = adenine, G =) Tj ETQq1 1 0.784314 rgBT /Overlock 118-125.	0.7	8
82	Superhalogen properties of BS₂^{â^'} and BSO^{â^'}: photoelectron spectroscopy and theoretical calculations. Physical Chemistry Chemical Physics, 2016, 18, 6175-6181.	1.3	8
83	Structural and Electronic Properties of LaSi_n^{â€“/0} (n = 2â€“6) Clusters: Anion Photoelectron Spectroscopy and Density Functional Calculations. Journal of Physical Chemistry A, 2021, 125, 10557-10567.	1.1	8
84	Photoelectron Spectroscopy of CoC₂H₂^{â€“} and Density Functional Study of Co_nC₂H₂ (n = 1â€“3) Anion and Neutral Clusters. Journal of Physical Chemistry A, 2014, 118, 6757-6762.	1.1	7
85	Hydration of potassium iodide dimer studied by photoelectron spectroscopy and ab initio calculations. Journal of Chemical Physics, 2016, 145, 184307.	1.2	7
86	Structures and bonding properties of CPt2â^'/0 and CPt2Hâ^'/0: Anion photoelectron spectroscopy and quantum chemical calculations. Journal of Chemical Physics, 2019, 151, 224303.	1.2	7
87	Photoelectron spectroscopy andab initiocalculations of small SinSmâ^'(n = 1,2; m = 1â€“4) clusters. Journal of Chemical Physics, 2014, 141, 124310.	1.2	6
88	Structural and bonding properties of Cu₃O₃^{â^'} and Cu₃O₄^{â^'} clusters: anion photoelectron spectroscopy and density functional calculations. Physical Chemistry Chemical Physics, 2018, 20, 20622-20628.	1.3	6
89	Structural and Electronic Properties of Co_nC₃^{â^'/0}and Co_nC₄^{â^'/0}(n=1â^'4) Clusters: Mass-Selected Anion Photoelectron Spectroscopy and Density Functional Theory Calculations. Chinese Journal of Chemical Physics, 2017, 30, 717-726.	0.6	5
90	Size-selected anion photoelectron spectroscopy and density functional theory study of MnCnâ^'/0 (n =) Tj ETQq0 0 0 rgBT /Overlock 10 150, 074304.	1.2	5

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91	Structural evolution of LiNn+ (n = 2, 4, 6, 8, and 10) clusters: mass spectrometry and theoretical calculations. RSC Advances, 2019, 9, 6762-6769.	1.7	5
92	Photoassisted Selective Steam and Dry Reforming of Methane to Syngas Catalyzed by Rhodiumâ€“Vanadium Bimetallic Oxide Cluster Anions at Room Temperature. Angewandte Chemie, 2020, 132, 21402-21409.	1.6	5
93	Comparison of the Microsolvation of CaX₂ (X = F, Cl, Br, I) in Water: Size-Selected Anion Photoelectron Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry A, 2021, 125, 3288-3306.	1.1	5
94	Interaction of FeOâ¯ with water: anion photoelectron spectroscopy and theoretical calculations. Physical Chemistry Chemical Physics, 2017, 19, 21112-21118.	1.3	4
95	Microsolvation of Sodium Thiocyanate in Water: Gas Phase Anion Photoelectron Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry A, 2020, 124, 7816-7826.	1.1	4
96	Hydration processes of barium chloride: Size-selected anion photoelectron spectroscopy and theoretical calculations of BaCl2-water clusters. Journal of Chemical Physics, 2020, 153, 134301.	1.2	4
97	Mass spectrometry detection of LiN12+ cluster and theoretical investigation of its structures and stability. Chemical Physics Letters, 2020, 747, 137310.	1.2	4
98	Structural Evolution and Bonding Properties of Cr₂Si_n^{â€“} (n = 1â€“12) Clusters: Mass-Selected Anion Photoelectron Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry A, 2022, 126, 1182-1193.	1.1	4
99	Signature of Au as a Halogen. Journal of Physical Chemistry Letters, 0, , 4721-4728.	2.1	4
100	Structures and Electronic Properties of (KI)_n^{â€“/0} (n = 1â€“4) and K(KI)_n^{â€“/0} (n = 1â€“3) Clusters: Photoelectron Spectroscopy, Isomer-Depletion, and ab Initio Calculations. Journal of Physical Chemistry A, 2015, 119, 11154-11161.	1.1	3
101	Structural and bonding properties of BS^{â¯/0} and BS₃^{â¯/0}. New Journal of Chemistry, 2018, 42, 16021-16026.	1.4	3
102	Identification of octahedral coordinated ZrN₁₂⁺ cationic clusters by mass spectrometry and structure searches. Dalton Transactions, 2021, 50, 10187-10192.	1.6	3
103	Observation of Aromatic Three-Membered Rings in Ge₃C and Ge₃O via Photoelectron Spectroscopy and Theoretical Calculations. Inorganic Chemistry, 2021, 60, 16645-16651.	1.9	3
104	Anion photoelectron spectroscopy and theoretical calculations of Cu4Onâ¯/0 (n = 1â€“4): Identification of stable quasi-square structure for Cu4O4â¯. Journal of Chemical Physics, 2022, 156, 054304.	1.2	3
105	Investigation of (m=2â€“5,n=2â€“3) clusters using photoelectron spectroscopy and density functional calculations. Chemical Physics Letters, 2013, 564, 6-10.	1.2	2
106	Structural and electronic properties of HCnSâ¯ (n = 4â€“11): anion photoelectron spectroscopy and density functional calculations. RSC Advances, 2016, 6, 78064-78072.	1.7	2
107	A photoelectron spectroscopy and quantum chemical study on ternary Alâ€“Bâ€“O clusters: Al_nBO₂^{â¯} and Al_nBO₂ (n = 2, 3). Physical Chemistry Chemical Physics, 2018, 20, 5200-5209.	1.3	1
108	Structures and hydrogen bonding of 1,7-dioxaspiro[5.5]undecane and its hydrates. Physical Chemistry Chemical Physics, 2021, 23, 19289-19296.	1.3	1

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109	Structures of (NaSCN)2(H2O)nâ^'/0 (n = 0â€“7) and solvation induced ion pair separation: Gas phase anion photoelectron spectroscopy and theoretical calculations. Journal of Chemical Physics, 2021, 154, 204301.	1.2	1
110	Anion photoelectron spectroscopy and density functional theory studies of AuC_n^{â^'/0} (n=3â^'8): Odd-even alternation in electron binding energies and structures. Chinese Journal of Chemical Physics, 2022, 35, 177-184.	0.6	1
111	Titelbild: A Combined Gas-Phase Photoelectron Spectroscopic and Theoretical Study of Zeiseâ€™s Anion and Its Bromine and Iodine Analogues (Angew. Chem. 26/2012). Angewandte Chemie, 2012, 124, 6385-6385.	1.6	0
112	Structural and Bonding Properties of AlnC4â^'/0 (n=2â^'4) Clusters: Anion Photoelectron Spectroscopy and Theoretical Calculations. Chinese Journal of Chemical Physics, 0, , .	0.6	0