

Chiara Cappelli

List of Publications by Year in descending order

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3698
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#	ARTICLE	IF	CITATIONS
1	Ring Vibrations to Sense Anionic Ibuprofen in Aqueous Solution as Revealed by Resonance Raman. <i>Molecules</i> , 2022, 27, 442.	1.7	13
2	Absorption Properties of Large Complex Molecular Systems: The DFTB/Fluctuating Charge Approach. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 1765-1779.	2.3	8
3	<i>in silico</i> design of graphene plasmonic hot-spots. <i>Nanoscale Advances</i> , 2022, 4, 2294-2302.	2.2	6
4	Amide Spectral Fingerprints are Hydrogen Bonding-Mediated. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6200-6207.	2.1	9
5	Multilevel Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 791-803.	2.3	21
6	A polarizable three-layer frozen density embedding/molecular mechanics approach. <i>Journal of Chemical Physics</i> , 2021, 154, 164107.	1.2	7
7	Exploring Biases in Atom Probe Tomography Compositional Analysis of Minerals. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 457-476.	1.7	7
8	Thermodynamics and Intermolecular Interactions during the Insertion of Anionic Naproxen into Model Cell Membranes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10383-10391.	1.2	13
9	A molecular twist on hydrophobicity. <i>Chemical Science</i> , 2021, 12, 9233-9245.	3.7	22
10	Quantum Mechanics/Fluctuating Charge Protocol to Compute Solvatochromic Shifts. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 7146-7156.	2.3	15
11	Atom Probe Tomography Analysis of Mica. <i>Microscopy and Microanalysis</i> , 2021, , 1-14.	0.2	2
12	Going Beyond the Limits of Classical Atomistic Modeling of Plasmonic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23848-23863.	1.5	11
13	Evolution of Bonding during the Insertion of Anionic Ibuprofen into Model Cell Membranes. <i>Journal of Physical Chemistry B</i> , 2020, 124, 79-90.	1.2	21
14	Calculation of Linear and Non-linear Electric Response Properties of Systems in Aqueous Solution: A Polarizable Quantum/Classical Approach with Quantum Repulsion Effects. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6993-7004.	2.3	16
15	Theory and algorithms for chiroptical properties and spectroscopies of aqueous systems. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 22864-22879.	1.3	29
16	Biotite reactivity in nitric and oxalic acid at low temperature and acid pH from surface and bulk dissolution measurements. <i>Chemical Geology</i> , 2020, 554, 119806.	1.4	4
17	Molecular spectroscopy of aqueous solutions: a theoretical perspective. <i>Chemical Society Reviews</i> , 2020, 49, 5664-5677.	18.7	55
18	Graphene Plasmonics: Fully Atomistic Approach for Realistic Structures. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7595-7602.	2.1	13

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19	Simulating Absorption Spectra of Flavonoids in Aqueous Solution: A Polarizable QM/MM Study. <i>Molecules</i> , 2020, 25, 5853.	1.7	15
20	Effect of crystallographic orientation on atom probe tomography geochemical data?. <i>Micron</i> , 2020, 137, 102910.	1.1	8
21	In Situ Geochemical Analysis of Organics in Growth Lines of Antarctic Scallop Shells: Implications for Sclerochronology. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 529.	0.8	8
22	Absorption spectra of xanthenes in aqueous solution: a computational study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5929-5941.	1.3	23
23	Simulating vertical excitation energies of solvated dyes: From continuum to polarizable discrete modeling. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25684.	1.0	37
24	Atom Probe Tomography (APT) Characterization of Organics Occluded in Single Calcite Crystals: Implications for Biomineralization Studies. <i>Journal of Carbon Research</i> , 2019, 5, 50.	1.4	8
25	The Role of pH, Temperature, and NH_4^+ during Mica Weathering. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2613-2622.	1.2	9
26	Calculation of IR Spectra with a Fully Polarizable QM/MM Approach Based on Fluctuating Charges and Fluctuating Dipoles. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 5495-5507.	2.3	35
27	Quantum Confinement Effects on Solvatochromic Shifts of Molecular Solutes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5823-5829.	2.1	31
28	A combined experimental and theoretical study of optical rotatory dispersion for (<i>R</i>)-glycidyl methyl ether in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3644-3655.	1.3	30
29	Interplay between conformational and solvent effects in UV-visible absorption spectra: curcumin tautomers as a case study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15504-15514.	1.3	47
30	Fully Polarizable QM/Fluctuating Charge Approach to Two-Photon Absorption of Aqueous Solutions. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 4056-4068.	2.3	24
31	Polarizable QM/MM Approach with Fluctuating Charges and Fluctuating Dipoles: The QM/FQF ^{1/4} Model. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2233-2245.	2.3	55
32	Effective yet reliable computation of hyperfine coupling constants in solution by a QM/MM approach: Interplay between electrostatics and non-electrostatic effects. <i>Journal of Chemical Physics</i> , 2019, 150, 124102.	1.2	42
33	A classical picture of subnanometer junctions: an atomistic Drude approach to nanoplasmonics. <i>Nanoscale</i> , 2019, 11, 6004-6015.	2.8	25
34	Electronic transitions for a fully polarizable QM/MM approach based on fluctuating charges and fluctuating dipoles: Linear and corrected linear response regimes. <i>Journal of Chemical Physics</i> , 2019, 151, 174104.	1.2	42
35	Effective computational route towards vibrational optical activity spectra of chiral molecules in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9181-9197.	1.3	46
36	Montmorillonite dissolution kinetics: Experimental and reactive transport modeling interpretation. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 227, 96-122.	1.6	14

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37	Evaluation of Hyperpolarizability from the Solvatochromic Method: Thiophene Containing Push-Pull Cationic Dyes as a Case Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2285-2296.	1.5	32
38	A 4,4'-bis(2-benzoxazolyl)stilbene luminescent probe: assessment of aggregate formation through photophysics experiments and quantum-chemical calculations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26249-26258.	1.3	4
39	On the nature of charge-transfer excitations for molecules in aqueous solution: a polarizable QM/MM study. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	0.5	14
40	A polarizable embedding approach to second harmonic generation (SHG) of molecular systems in aqueous solutions. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	0.5	28
41	A General Route to Include Pauli Repulsion and Quantum Dispersion Effects in QM/MM Approaches. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4854-4870.	2.3	62
42	Polarizable Embedding Approach for the Analytical Calculation of Raman and Raman Optical Activity Spectra of Solvated Systems. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4421-4435.	2.3	39
43	Understanding the interplay between the solvent and nuclear rearrangements in the negative solvatochromism of a push-pull flexible quinolinium cation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 32544-32555.	1.3	7
44	Integrated QM/polarizable MM/continuum approaches to model chiroptical properties of strongly interacting solute-solvent systems. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 1532-1542.	1.0	75
45	In situ observation of biotite (001) surface dissolution at pH 1 and 9.5 by advanced optical microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 665-673.	1.5	4
46	Origin invariance in vibrational resonance Raman optical activity. <i>Journal of Chemical Physics</i> , 2015, 142, 174101.	1.2	25
47	The Electronic Circular Dichroism of Nicotine in Aqueous Solution: A Test Case for Continuum and Mixed Explicit-Continuum Solvation Approaches. <i>Journal of Physical Chemistry A</i> , 2015, 119, 5396-5404.	1.1	33
48	Optical rotatory dispersion of methyloxirane in aqueous solution: assessing the performance of density functional theory in combination with a fully polarizable QM/MM/PCM approach. <i>Optical Materials Express</i> , 2015, 5, 196.	1.6	23
49	A benchmark study of electronic excitation energies, transition moments, and excited-state energy gradients on the nicotine molecule. <i>Journal of Chemical Physics</i> , 2014, 141, 224114.	1.2	23
50	Stereoelectronic, Vibrational, and Environmental Contributions to Polarizabilities of Large Molecular Systems: A Feasible Anharmonic Protocol. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2456-2464.	2.3	35
51	A Robust and Effective Time-Independent Route to the Calculation of Resonance Raman Spectra of Large Molecules in Condensed Phases with the Inclusion of Duschinsky, Herzberg-Teller, Anharmonic, and Environmental Effects. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 346-363.	2.3	71
52	Cobalt complexes able to bind dioxygen: Thermodynamic studies and DFT calculations. <i>Inorganica Chimica Acta</i> , 2014, 417, 230-238.	1.2	6
53	An integrated computational tool to model the broadening of the absorption bands of flexible dyes in solution: cationic chromophores as test cases. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26963-26973.	1.3	17
54	Ultrafast resonance energy transfer in the umbelliferone-alizarin bichromophore. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10059-10074.	1.3	12

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55	Combination of Transient 2D-IR Experiments and Ab Initio Computations Sheds Light on the Formation of the Charge-Transfer State in Photoexcited Carbonyl Carotenoids. <i>Journal of Physical Chemistry B</i> , 2014, 118, 9613-9630.	1.2	17
56	Development of a Virtual Spectrometer for Chiroptical Spectroscopies: The Case of Nicotine. <i>Chirality</i> , 2013, 25, 701-708.	1.3	22
57	Anharmonic theoretical simulations of infrared spectra of halogenated organic compounds. <i>Journal of Chemical Physics</i> , 2013, 139, 074310.	1.2	72
58	Conformational Analysis of Glycyl-L-Ala-NHMe in D ₂ O and DMSO Solutions: A Two-Dimensional Infrared Spectroscopy Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14226-14237.	1.2	9
59	Computational Design, Synthesis, and Mechanochromic Properties of New Thiophene-Based π -Conjugated Chromophores. <i>Chemistry - A European Journal</i> , 2013, 19, 1996-2004.	1.7	43
60	The Optical Rotation of Methyloxirane in Aqueous Solution: A Never Ending Story?. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1880-1884.	2.3	76
61	In Situ Observation of Biotite Dissolution at pH 1 Using Advanced Optical Microscopy. <i>Crystal Growth and Design</i> , 2013, 13, 2880-2886.	1.4	12
62	Duschinsky, Herzberg-Teller, and Multiple Electronic Resonance Interferential Effects in Resonance Raman Spectra and Excitation Profiles. The Case of Pyrene. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3597-3611.	2.3	60
63	Tuning of NMR and EPR parameters by vibrational averaging and environmental effects: an integrated computational approach. <i>Molecular Physics</i> , 2013, 111, 1345-1354.	0.8	12
64	Vertical Electronic Excitations in Solution with the EOM-CCSD Method Combined with a Polarizable Explicit/Implicit Solvent Model. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3035-3042.	2.3	48
65	Effective time-independent studies on resonance Raman spectroscopy of trans-stilbene including the Duschinsky effect. <i>Molecular Physics</i> , 2013, 111, 1511-1525.	0.8	4
66	An integrated experimental and quantum-chemical investigation on the vibrational spectra of chlorofluoromethane. <i>Journal of Chemical Physics</i> , 2013, 139, 164302.	1.2	36
67	A gauge invariant multiscale approach to magnetic spectroscopies in condensed phase: General three-layer model, computational implementation and pilot applications. <i>Journal of Chemical Physics</i> , 2013, 138, 234108.	1.2	47
68	Toward Ab Initio Anharmonic Vibrational Circular Dichroism Spectra in the Condensed Phase. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1766-1773.	2.1	50
69	Toward an Accurate Modeling of Optical Rotation for Solvated Systems: Anharmonic Vibrational Contributions Coupled to the Polarizable Continuum Model. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 585-597.	2.3	46
70	Implementation and validation of a multi-purpose virtual spectrometer for large systems in complex environments. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12404.	1.3	128
71	Linear Response Theory and Electronic Transition Energies for a Fully Polarizable QM/Classical Hamiltonian. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4153-4165.	2.3	111
72	Analytical First and Second Derivatives for a Fully Polarizable QM/Classical Hamiltonian. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4270-4278.	2.3	68

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73	Modelling vibrational coupling in DNA oligomers: a computational strategy combining QM and continuum solvation models. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	13
74	Integrated computational approaches for spectroscopic studies of molecular systems in the gas phase and in solution: pyrimidine as a test case. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	64
75	Effect of lactate, glycine, and citrate on the kinetics of montmorillonite dissolution. <i>American Mineralogist</i> , 2011, 96, 768-780.	0.9	24
76	Effective Time-Independent Calculations of Vibrational Resonance Raman Spectra of Isolated and Solvated Molecules Including Duschinsky and Herzberg-Teller Effects. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1824-1839.	2.3	77
77	Cavity field effects within a polarizable continuum model of solvation: Application to the calculation of electronic circular dichroism spectra of (+)-methylcyclopentanone. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 826-838.	1.0	20
78	David Bishop's approach to vibrational dynamic contributions to molecular properties: Application to Jones and magnetoelectric birefringences in diatomic molecules. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 760-771.	1.0	2
79	Modeling solvent effects on chiroptical properties. <i>Chirality</i> , 2011, 23, 717-729.	1.3	106
80	Towards an accurate description of anharmonic infrared spectra in solution within the polarizable continuum model: Reaction field, cavity field and nonequilibrium effects. <i>Journal of Chemical Physics</i> , 2011, 135, 104505.	1.2	48
81	On the Calculation of Vibrational Frequencies for Molecules in Solution Beyond the Harmonic Approximation. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1660-1669.	2.3	52
82	Toward a Quantum-Mechanical Description of 2D-IR Spectra of Solvated Systems: The Vibrational Mode Coupling within A Polarizable Continuum Model. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4924-4930.	1.2	7
83	Structures and Properties of Electronically Excited Chromophores in Solution from the Polarizable Continuum Model Coupled to the Time-Dependent Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3009-3020.	1.1	173
84	Ab Initio Study of the Magneto-Optical Rotation of Diastereoisomers. <i>ChemPhysChem</i> , 2008, 9, 462-469.	1.0	1
85	Modulation of the Optical Response of Polyethylene Films Containing Luminescent Perylene Chromophores. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3668-3679.	1.2	115
86	How the Environment Controls Absorption and Fluorescence Spectra of PRODAN: A Quantum-Mechanical Study in Homogeneous and Heterogeneous Media. <i>Journal of Physical Chemistry B</i> , 2008, 112, 414-423.	1.2	65
87	Modeling the Solvation of Peptides. The Case of (S)-N-Acetylproline Amide in Liquid Water. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3441-3450.	1.2	26
88	Modification and photostabilization of low density polyethylene film by photodecomposition of various diazo-compounds and methyl azidocarboxylate. <i>Polymer Degradation and Stability</i> , 2007, 92, 849-858.	2.7	10
89	Conferring dichroic properties and optical responsiveness to polyolefins through organic chromophores and metal nanoparticles. <i>Progress in Organic Coatings</i> , 2007, 58, 105-116.	1.9	29
90	A quantum mechanical polarizable continuum model for the calculation of resonance Raman spectra in condensed phase. <i>Theoretical Chemistry Accounts</i> , 2007, 117, 1029-1039.	0.5	46

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91	Characterization of Supramolecular Polyphenol-Chromium(III) Clusters by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13227-13234.	1.2	10
92	Solvent Effects on Raman Optical Activity Spectra Calculated Using the Polarizable Continuum Model. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2807-2815.	1.1	59
93	Dichroic Properties of Bis(benzoxazolyl)stilbene and Bis(benzoxazolyl)thiophene Dispersed into Oriented Polyethylene Films: A Combined Experimental and Density Functional Theory Approach. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3127-3134.	1.2	37
94	Towards the design of highly selective recognition sites into molecular imprinting polymers: A computational approach. <i>Biosensors and Bioelectronics</i> , 2006, 22, 153-163.	5.3	49
95	Density-functional-theory study of the electric-field-induced second harmonic generation (EFISHG) of push-pull phenylpolyenes in solution. <i>Chemical Physics Letters</i> , 2006, 425, 267-272.	1.2	99
96	Computational study of conformational and chiroptical properties of (2R,3S,4R)-(+)-3,3',4,4',7-flavanpentol. <i>Chirality</i> , 2005, 17, 577-589.	1.3	20
97	Infrared linear dichroism in stretched films: Quantum mechanical approach within the polarizable continuum model. <i>International Journal of Quantum Chemistry</i> , 2005, 104, 716-726.	1.0	9
98	Effect of the environment on vibrational infrared and circular dichroism spectra of (s)-proline. <i>International Journal of Quantum Chemistry</i> , 2005, 104, 744-757.	1.0	26
99	A computational study of some electric and magnetic properties of gaseous BF ₃ and BCl ₃ . <i>Journal of Chemical Physics</i> , 2005, 123, 114307.	1.2	9
100	Density-functional theory study of electric and magnetic properties of hexafluorobenzene in the vapor phase. <i>Journal of Chemical Physics</i> , 2005, 122, 234314.	1.2	27
101	Toward the Supramolecular Structure of Collagen: A Molecular Dynamics Approach. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11389-11398.	1.2	28
102	Understanding the Accelerating Effect of β -Caprolactam on the Formation of Urethane Linkages. <i>Macromolecules</i> , 2005, 38, 1385-1394.	2.2	12
103	Quantum Mechanical Polarizable Continuum Model Approach to the Kerr Effect of Pure Liquids. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18706-18714.	1.2	29
104	Environmental Effects on the Spectroscopic Properties of Gallic Acid: A Combined Classical and Quantum Mechanical Study. <i>Journal of Physical Chemistry A</i> , 2005, 109, 1933-1943.	1.1	71
105	Density-functional and electron correlated study of five linear birefringences-Kerr, Cotton-Mouton, Buckingham, Jones, and magnetoelectric in gaseous benzene. <i>Journal of Chemical Physics</i> , 2004, 121, 8814-8830.	1.2	30
106	Second-order M \ddot{A} ller-Plesset second derivatives for the polarizable continuum model: theoretical bases and application to solvent effects in electrophilic bromination of ethylene. <i>Theoretical Chemistry Accounts</i> , 2004, 111, 66-77.	0.5	13
107	Understanding the Structural and Binding Properties of Collagen: A Theoretical Perspective. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10101-10112.	1.2	39
108	Prediction of Solvent Effects on Vibrational Absorption Intensities and Raman Activities in Solution within the Polarizable Continuum Model: A Study on Push-Pull Molecules. <i>Journal of Physical Chemistry A</i> , 2003, 107, 10261-10271.	1.1	13

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109	Combining Theory and Experiment to Study the Photooxidation of Polyethylene and Polypropylene. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11880-11888.	1.2	40
110	The Cotton-Mouton effect of furan and its homologues in the gas phase, for the pure liquids and in solution. <i>Journal of Chemical Physics</i> , 2003, 118, 10712-10724.	1.2	37
111	Vibrational Circular Dichroism within the Polarizable Continuum Model: A Theoretical Evidence of Conformation Effects and Hydrogen Bonding for (S)-(α)-3-Butyn-2-ol in CCl ₄ Solution. <i>Journal of Physical Chemistry A</i> , 2002, 106, 12331-12339.	1.1	83
112	Molecular properties in solution described with a continuum solvation model. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5697-5712.	1.3	277
113	Theoretical Approach to the Calculation of Vibrational Raman Spectra in Solution within the Polarizable Continuum Model. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8310-8316.	1.1	53
114	Solvent Effects on trans/gauche Conformational Equilibria of Substituted Chloroethanes: a Polarizable Continuum Model Study. <i>Journal of Physical Chemistry A</i> , 2001, 105, 10807-10815.	1.1	42
115	The Cotton-Mouton effect of gaseous N ₂ , CO, CO ₂ , N ₂ O, OCS and CS ₂ : a density functional approach to high-order mixed electric and magnetic properties. <i>Chemical Physics Letters</i> , 2001, 346, 251-258.	1.2	16
116	Solvent effects on vibrational modes: ab-initio calculations, scaling and solvent functions with applications to the carbonyl stretch of dialkyl ketones. <i>Computational and Theoretical Chemistry</i> , 2001, 544, 191-203.	1.5	23
117	Electronic and vibrational dynamic solvent effects on Raman spectra. <i>Journal of Chemical Physics</i> , 2001, 115, 5531-5535.	1.2	38
118	Nonequilibrium formulation of infrared frequencies and intensities in solution: Analytical evaluation within the polarizable continuum model. <i>Journal of Chemical Physics</i> , 2000, 113, 11270-11279.	1.2	69
119	Properties and Spectroscopies. , 0, , 125-312.		3