

Sergei Yu Arzhantsev

List of Publications by Year in descending order

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25
papers

2,303
citations

430442

18
h-index

580395

25
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26
all docs

26
docs citations

26
times ranked

2323
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical Properties of Ionic Liquids Consisting of the 1-Butyl-3-Methylimidazolium Cation with Various Anions and the Bis(trifluoromethylsulfonyl)imide Anion with Various Cations. <i>Journal of Physical Chemistry B</i> , 2008, 112, 81-92.	1.2	391
2	Solvation and Rotational Dynamics of Coumarin 153 in Ionic Liquids: Comparisons to Conventional Solvents. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7291-7302.	1.2	297
3	Femtosecond Time-Resolved Fluorescence Study of Photoisomerization of trans-Azobenzene. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8123-8129.	1.1	272
4	Measurements of the Complete Solvation Response in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4978-4989.	1.2	215
5	The probe dependence of solvation dynamics and rotation in the ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate. <i>Chemical Physics Letters</i> , 2004, 396, 83-91.	1.2	190
6	Solvation dynamics of coumarin 153 in several classes of ionic liquids: cation dependence of the ultrafast component. <i>Chemical Physics Letters</i> , 2003, 381, 278-286.	1.2	152
7	Observing the complete solvation response of DCS in imidazolium ionic liquids, from the femtosecond to nanosecond regimes. <i>Chemical Physics Letters</i> , 2006, 417, 524-529.	1.2	90
8	Femtosecond/Picosecond Time-Resolved Spectroscopy of trans-Azobenzene: Isomerization Mechanism Following S ₂ ($\pi\pi^*$) \rightarrow S ₀ Photoexcitation. <i>Bulletin of the Chemical Society of Japan</i> , 2002, 75, 1031-1040.	2.0	89
9	Selective melamine detection in multiple sample matrices with a portable Raman instrument using surface enhanced Raman spectroscopy-active gold nanoparticles. <i>Analytica Chimica Acta</i> , 2012, 733, 48-55.	2.6	85
10	Design and Characterization of a Femtosecond Fluorescence Spectrometer Based on Optical Kerr Gating. <i>Applied Spectroscopy</i> , 2005, 59, 206-220.	1.2	81
11	Photophysics of trans-4-(Dimethylamino)-4'-cyanostilbene and Its Use as a Solvation Probe. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3454-3470.	1.1	81
12	Ultrafast excited-state proton transfer dynamics of 1,8-dihydroxyanthraquinone (chrysazin) studied by femtosecond time-resolved fluorescence spectroscopy. <i>Chemical Physics Letters</i> , 2000, 330, 83-90.	1.2	57
13	Rapid Limit Tests for Metal Impurities in Pharmaceutical Materials by X-ray Fluorescence Spectroscopy Using Wavelet Transform Filtering. <i>Analytical Chemistry</i> , 2011, 83, 1061-1068.	3.2	54
14	Photophysical Characterization of Benzylidene Malononitriles as Probes of Solvent Friction. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7565-7578.	1.2	52
15	Libraries, classifiers, and quantifiers: A comparison of chemometric methods for the analysis of Raman spectra of contaminated pharmaceutical materials. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 61, 191-198.	1.4	33
16	Solvation and Solvatochromism in CO ₂ -Expanded Liquids. 2. Experimental Simulation Comparisons of Preferential Solvation in Three Prototypical Mixtures. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3208-3221.	1.2	29
17	Multivariate Calibration and Instrument Standardization for the Rapid Detection of Diethylene Glycol in Glycerin by Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2011, 65, 334-341.	1.2	28
18	Polar Solvation and Solvation Dynamics in Supercritical CHF ₃ : Results from Experiment and Simulation. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3405-3413.	1.1	25

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19	Solvation and Solvatochromism in CO ₂ -Expanded Liquids. 3. The Dynamics of Nonspecific Preferential Solvation. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14959-14970.	1.2	13
20	Detection of diethylene glycol adulteration in propylene glycol—Method validation through a multi-instrument collaborative study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 54, 1001-1006.	1.4	13
21	Deep-Ultraviolet Resonance Raman (DUVRR) Spectroscopy of Therapeutic Monoclonal Antibodies Subjected to Thermal Stress. <i>Analytical Chemistry</i> , 2015, 87, 7880-7886.	3.2	13
22	Classification of Ciprofloxacin Tablets Using Near-Infrared Spectroscopy and Chemometric Modeling. <i>Applied Spectroscopy</i> , 2017, 71, 1927-1937.	1.2	11
23	Deep-Ultraviolet (UV) Resonance Raman Spectroscopy as a Tool for Quality Control of Formulated Therapeutic Proteins. <i>Applied Spectroscopy</i> , 2012, 66, 1262-1268.	1.2	9
24	Secondary structure assessment of formulated bevacizumab in the presence of SDS by deep ultraviolet resonance Raman (DUVRR) spectroscopy. <i>Analytical Biochemistry</i> , 2018, 555, 26-32.	1.1	9
25	Comparative Studies of Therapeutic Protein Secondary Structure Using Deep UV Resonance Raman Spectroscopy. , 2010, , .		1