

Kirk D Rector

List of Publications by Year in descending order

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32
papers

1,268
citations

331670

21
h-index

454955

30
g-index

32
all docs

32
docs citations

32
times ranked

1486
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic investigation of U(VI) sorption at the calcite-water interface. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2437-2448.	3.9	102
2	Vibrational lifetimes and vibrational line positions in polyatomic supercritical fluids near the critical point. <i>Journal of Chemical Physics</i> , 1997, 107, 3747-3757.	3.0	86
3	Vibrational anharmonicity and multilevel vibrational dephasing from vibrational echo beats. <i>Journal of Chemical Physics</i> , 1997, 106, 10027-10036.	3.0	85
4	Effects of Solvent Viscosity on Protein Dynamics: Infrared Vibrational Echo Experiments and Theory. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1081-1092.	2.6	79
5	Exploring new strategies for cellulosic biofuels production. <i>Energy and Environmental Science</i> , 2011, 4, 3820.	30.8	79
6	Vibrational Echo Studies of Protein Dynamics. <i>Physical Review Letters</i> , 1996, 77, 1648-1651.	7.8	65
7	Mutant and Wild-Type Myoglobin-CO Protein Dynamics: Vibrational Echo Experiments. <i>Journal of Physical Chemistry B</i> , 1997, 101, 1468-1475.	2.6	63
8	Determination of the Insulation Gap of Uranium Oxides by Spectroscopic Ellipsometry and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16540-16551.	3.1	57
9	Vibrational dephasing mechanisms in liquids and glasses: Vibrational echo experiments. <i>Journal of Chemical Physics</i> , 1998, 108, 1794-1803.	3.0	56
10	Reversible swelling of the cell wall of poplar biomass by ionic liquid at room temperature. <i>Bioresource Technology</i> , 2011, 102, 4518-4523.	9.6	53
11	Vibrational echoes: A new approach to condensed-matter vibrational spectroscopy. <i>International Reviews in Physical Chemistry</i> , 1998, 17, 261-306.	2.3	52
12	Ionic Liquid Pretreatment of Poplar Wood at Room Temperature: Swelling and Incorporation of Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2198-2205.	8.0	49
13	A Dynamical Transition in the Protein Myoglobin Observed by Infrared Vibrational Echo Experiments. <i>Journal of Physical Chemistry A</i> , 1999, 103, 2381-2387.	2.5	45
14	Evidence for room temperature delignification of wood using hydrogen peroxide and manganese acetate as a catalyst. <i>Bioresource Technology</i> , 2012, 119, 174-180.	9.6	43
15	Site-specific incorporation of uranyl carbonate species at the calcite surface. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4799-4808.	3.9	42
16	Sulfur-resistant and regenerable Ni/Co spinel-based catalysts for methane dry reforming. <i>Catalysis Science and Technology</i> , 2015, 5, 4565-4574.	4.1	41
17	Vibrational relaxation of a polyatomic solute in a polyatomic supercritical fluid near the critical point. <i>Journal of Chemical Physics</i> , 1996, 105, 8973-8976.	3.0	39
18	Vibrational echo spectroscopy: Spectral selectivity from vibrational coherence. <i>Journal of Chemical Physics</i> , 1998, 109, 5455-5465.	3.0	36

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19	Tyrosine-derived stimuli responsive, fluorescent amino acids. <i>Chemical Science</i> , 2015, 6, 1150-1158.	7.4	35
20	Two-pulse echo experiments in the spectral diffusion regime. <i>Journal of Chemical Physics</i> , 2000, 113, 3233-3242.	3.0	32
21	SERS nanosensors that report pH of endocytic compartments during Fc μ R1 transit. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2019-2029.	3.7	27
22	Microfluidic Flow-Flash: A Method for Investigating Protein Dynamics. <i>Analytical Chemistry</i> , 2007, 79, 122-128.	6.5	20
23	A geochemical approach to constraining the formation of glassy fallout debris from nuclear tests. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	17
24	Characterization of Chemical Speciation in Ultrathin Uranium Oxide Layered Films. <i>Analytical Chemistry</i> , 2012, 84, 10380-10387.	6.5	16
25	Preparation of Epitaxial Uranium Dicarbide Thin Films by Polymer-Assisted Deposition. <i>Chemistry of Materials</i> , 2013, 25, 4373-4377.	6.7	15
26	Morphologic and chemical characterization of products from hydrolysis of UF ₆ . <i>Journal of Fluorine Chemistry</i> , 2015, 178, 107-114.	1.7	12
27	c-KIT signaling is targeted by pathogenic Yersiniato suppress the host immune response. <i>BMC Microbiology</i> , 2013, 13, 249.	3.3	9
28	Formation of solid thorium monoxide at near-ambient conditions as observed by neutron reflectometry and interpreted by screened hybrid functional calculations. <i>Journal of Nuclear Materials</i> , 2017, 487, 288-296.	2.7	6
29	Live Cells as Dynamic Laboratories: Time Lapse Raman Spectral Microscopy of Nanoparticles with Both IgE Targeting and pH-Sensing Functions. <i>International Journal of Analytical Chemistry</i> , 2012, 2012, 1-16.	1.0	3
30	Whispering gallery mode resonators in continuous flow: spectral assignments and sensing with monodisperse microspheres. <i>Analytical Methods</i> , 2022, 14, 1690-1697.	2.7	3
31	Application of Ionic Liquids in the Conversion of Native Lignocellulosic Biomass to Biofuels. , 2012, , 145-186.		1
32	<title>Vibrational echo studies of proteins, liquids, and glasses</title>. , 1998, 3273, 34.		0