

Sanford A Asher

List of Publications by Year in descending order

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269
papers

21,107
citations

6254

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all docs

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docs citations

272
times ranked

13178
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA-Crosslinked 2D Photonic Crystal Hydrogels for Detection of Adenosine Actuated by an Adenosine-Binding Aptamer. <i>ACS Sensors</i> , 2022, 7, 1648-1656.	7.8	15
2	Calibration of the SHERLOC Deep Ultraviolet Fluorescence Raman Spectrometer on the Perseverance Rover. <i>Applied Spectroscopy</i> , 2021, 75, 000370282110133.	2.2	18
3	Mechanisms by Which Organic Solvent Exchange Transforms Responsive Pure Protein Hydrogels into Responsive Organogels. <i>Biomacromolecules</i> , 2020, 21, 839-853.	5.4	4
4	Stimuli-Responsive Pure Protein Organogel Sensors and Biocatalytic Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 238-249.	8.0	17
5	228-nm quadrupled quasi-level Nd:GdVO ₄ laser for ultraviolet resonance Raman spectroscopy of explosives and biological molecules. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 2478-2488.	2.5	6
6	Human Serum Phenylpyruvate Quantification Using Responsive 2D Photonic Crystal Hydrogels via Chemoselective Oxime Ligation: Progress toward Developing Phenylalanine-Sensing Elements. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39612-39619.	8.0	15
7	Colloidal Self-Assembly of Highly-Ordered Silica Inverse Opals for Deep Ultraviolet Diffraction. <i>ACS Applied Nano Materials</i> , 2020, 3, 4135-4146.	5.0	5
8	Deep Ultraviolet Standoff Photoacoustic Spectroscopy of Trace Explosives. <i>Applied Spectroscopy</i> , 2019, 73, 601-609.	2.2	8
9	Polyglutamine Solution-State Structural Propensity Is Repeat Length Dependent. <i>Journal of Physical Chemistry B</i> , 2019, 123, 4193-4203.	2.6	4
10	UV Resonance Raman Structural Characterization of an (In)soluble Polyglutamine Peptide. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1749-1763.	2.6	10
11	Hydrophobic Collapse Initiates the Poly(N-isopropylacrylamide) Volume Phase Transition Reaction Coordinate. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3008-3014.	2.6	43
12	Ultraviolet resonance Raman spectroscopic markers for protein structure and dynamics. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 103, 223-229.	11.4	46
13	Interaction Enthalpy of Side Chain and Backbone Amides in Polyglutamine Solution Monomers and Fibrils. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1944-1950.	4.6	18
14	Increased volume responsiveness of macroporous hydrogels. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2900-2903.	7.8	34
15	Solid Deep Ultraviolet Diffracting Inverse Opal Photonic Crystals. <i>ACS Applied Nano Materials</i> , 2018, 1, 7016-7024.	5.0	13
16	Ultraviolet Raman Wide-Field Hyperspectral Imaging Spectrometer for Standoff Trace Explosive Detection. <i>Applied Spectroscopy</i> , 2017, 71, 173-185.	2.2	25
17	Monomeric Polyglutamine Structures That Evolve into Fibrils. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5953-5967.	2.6	18
18	UV Resonance Raman Investigation of Pentaerythritol Tetranitrate Solution Photochemistry and Photoproduct Hydrolysis. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7889-7894.	2.5	6

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19	Responsive Photonic Crystal Carbohydrate Hydrogel Sensor Materials for Selective and Sensitive Lectin Protein Detection. <i>ACS Sensors</i> , 2017, 2, 1474-1481.	7.8	83
20	Debye ring diffraction elucidation of 2D photonic crystal self-assembly and ordering at the air-water interface. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31813-31822.	2.8	37
21	Photonic crystal protein hydrogel sensor materials enabled by conformationally induced volume phase transition. <i>Chemical Science</i> , 2016, 7, 4557-4562.	7.4	72
22	Visual detection of 2,4,6-trinitrotoluene by molecularly imprinted colloidal array photonic crystal. <i>Journal of Hazardous Materials</i> , 2016, 316, 87-93.	12.4	44
23	Review of explosive detection methodologies and the emergence of standoff deep UV resonance Raman. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 124-141.	2.5	95
24	Aluminum Film-Over-Nanosphere Substrates for Deep-UV Surface-Enhanced Resonance Raman Spectroscopy. <i>Nano Letters</i> , 2016, 16, 7968-7973.	9.1	86
25	Polyglutamine Fibrils: New Insights into Antiparallel β -Sheet Conformational Preference and Side Chain Structure. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3012-3026.	2.6	27
26	A Photonic Crystal Protein Hydrogel Sensor for <i>Candida albicans</i> . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13036-13040.	13.8	159
27	Glutamine and Asparagine Side Chain Hyperconjugation-Induced Structurally Sensitive Vibrations. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13039-13051.	2.6	14
28	Dependence of Raman and Resonance Raman Intensities on Sample Self-Absorption. <i>Applied Spectroscopy</i> , 2015, 69, 75-83.	2.2	18
29	Compact Solid-State 213 nm Laser Enables Standoff Deep Ultraviolet Raman Spectrometer: Measurements of Nitrate Photochemistry. <i>Applied Spectroscopy</i> , 2015, 69, 895-901.	2.2	22
30	Two-dimensional colloidal crystal heterostructures. <i>RSC Advances</i> , 2015, 5, 18939-18944.	3.6	24
31	Solution and Solid Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) Ultraviolet (UV) 229 nm Photochemistry. <i>Applied Spectroscopy</i> , 2015, 69, 545-554.	2.2	14
32	UV Resonance Raman Investigation of the Aqueous Solvation Dependence of Primary Amide Vibrations. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3931-3939.	2.6	25
33	Two-Dimensional Photonic Crystal Chemical and Biomolecular Sensors. <i>Analytical Chemistry</i> , 2015, 87, 5013-5025.	6.5	187
34	Removable interpenetrating network enables highly-responsive 2-D photonic crystal hydrogel sensors. <i>Analyst</i> , 2015, 140, 6517-6521.	3.5	18
35	2D Photonic Crystal Protein Hydrogel Coulometer for Sensing Serum Albumin Ligand Binding. <i>Analytical Chemistry</i> , 2014, 86, 4840-4847.	6.5	101
36	Responsive ionic liquid-polymer 2D photonic crystal gas sensors. <i>Analyst</i> , 2014, 139, 6379-6386.	3.5	47

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37	Sodium Dodecyl Sulfate Monomers Induce XAO Peptide Polyproline II to $\hat{\alpha}$ -Helix Transition. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10565-10575.	2.6	11
38	Two-Dimensional Photonic Crystal Sensors for Visual Detection of Lectin Concanavalin A. <i>Analytical Chemistry</i> , 2014, 86, 9036-9041.	6.5	83
39	Raman Hyperspectral Imaging Spectrometer Utilizing Crystalline Colloidal Array Photonic Crystal Diffraction. <i>Applied Spectroscopy</i> , 2014, 68, 1219-1223.	2.2	17
40	Solution and Solid Trinitrotoluene (TNT) Photochemistry: Persistence of TNT-like Ultraviolet (UV) Resonance Raman Bands. <i>Applied Spectroscopy</i> , 2014, 68, 49-56.	2.2	20
41	Asymmetric Free-Standing 2-D Photonic Crystal Films and Their Janus Particles. <i>Journal of the American Chemical Society</i> , 2013, 135, 11397-11401.	13.7	43
42	Vertical spreading of two-dimensional crystalline colloidal arrays. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6099-6102.	5.5	34
43	Langevin Dynamics Simulation of 3D Colloidal Crystal Vacancies and Phase Transitions. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5271-5279.	2.6	4
44	UV Resonance Raman and DFT Studies of Arginine Side Chains in Peptides: Insights into Arginine Hydration. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7145-7156.	2.6	15
45	Two-dimensional array Debye ring diffraction protein recognition sensing. <i>Chemical Communications</i> , 2013, 49, 6337.	4.1	78
46	High-Throughput, High-Resolution Echelle Deep-UV Raman Spectrometer. <i>Applied Spectroscopy</i> , 2013, 67, 873-883.	2.2	20
47	Insight into Resolution Enhancement in Generalized Two-Dimensional Correlation Spectroscopy. <i>Applied Spectroscopy</i> , 2013, 67, 283-290.	2.2	12
48	Deep-Ultraviolet Resonance Raman Excitation Profiles of $\text{NH}_4^+\text{NO}_3^-$, PETN, TNT, HMX, and RDX. <i>Applied Spectroscopy</i> , 2012, 66, 1013-1021.	2.2	46
49	Refractive-Index Matching Avoids Local Field Corrections and Scattering Bias in Solid-State Na_2SO_4 Ultraviolet Raman Cross-Section Measurements. <i>Applied Spectroscopy</i> , 2012, 66, 157-162.	2.2	8
50	Silica Crystalline Colloidal Array Deep Ultraviolet Narrow-Band Diffraction Devices. <i>Applied Spectroscopy</i> , 2012, 66, 426-431.	2.2	11
51	UV Resonance Raman Studies of the NaClO_4 Dependence of Poly-L-lysine Conformation and Hydrogen Exchange Kinetics. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1134-1142.	2.6	6
52	Impact of Ion Binding on Poly-L-lysine (Un)folding Energy Landscape and Kinetics. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7102-7112.	2.6	6
53	Resonance Raman Spectra of TNT and RDX Using Vibronic Theory, Excited-State Gradient, and Complex Polarizability Approximations. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7862-7872.	2.5	33
54	Two-Dimensional Photonic Crystal Surfactant Detection. <i>Analytical Chemistry</i> , 2012, 84, 6416-6420.	6.5	71

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55	UV Resonance Raman Spectroscopy Monitors Polyglutamine Backbone and Side Chain Hydrogen Bonding and Fibrillization. <i>Biochemistry</i> , 2012, 51, 5822-5830.	2.5	30
56	UV Resonance Raman Investigations of Peptide and Protein Structure and Dynamics. <i>Chemical Reviews</i> , 2012, 112, 2604-2628.	47.7	177
57	Fabrication of Large Area Two-Dimensional Colloidal Crystals. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6117-6120.	13.8	161
58	Conformation of poly-l-glutamate is independent of ionic strength. <i>Biophysical Chemistry</i> , 2012, 162, 1-5.	2.8	10
59	Ultraviolet Resonance Raman Study of Side Chain Electrostatic Control of Poly-L-Lysine Conformation. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4251-4258.	2.6	20
60	Direct Observations of Conformational Distributions of Intrinsically Disordered p53 Peptides Using UV Raman and Explicit Solvent Simulations. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9520-9527.	2.5	18
61	Elucidating Peptide and Protein Structure and Dynamics: UV Resonance Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 334-344.	4.6	65
62	2-D Array Photonic Crystal Sensing Motif. <i>Journal of the American Chemical Society</i> , 2011, 133, 9152-9155.	13.7	207
63	Circular Dichroism and Ultraviolet Resonance Raman Indicate Little Arg-Glu Side Chain α -Helix Peptide Stabilization. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4234-4243.	2.6	9
64	UV Resonance Raman Finds Peptide Bond Arg Side Chain Electronic Interactions. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5659-5664.	2.6	7
65	Solid State and Solution Nitrate Photochemistry: Photochemical Evolution of the Solid State Lattice. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4279-4287.	2.5	33
66	Templated Photonic Crystal Fabrication of Stoichiometrically Complex Nanoparticles for Resonance Raman Solid Cross Section Determinations. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15767-15771.	3.1	6
67	Lowest Energy Electronic Transition in Aqueous Cl^{\sim} Salts: $\text{Cl}^{\sim} \hat{\dagger}$ (H_2O) ₆ Charge Transfer Transition. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9345-9348.	2.5	7
68	229 nm UV photochemical degradation of energetic molecules. , 2011, , .		4
69	Periodicity-Controlled Two-Dimensional Crystalline Colloidal Arrays. <i>Langmuir</i> , 2011, 27, 15230-15235.	3.5	36
70	Raman Studies of Solution Polyglycine Conformations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6636-6641.	2.6	51
71	Charge stabilized crystalline colloidal arrays as templates for fabrication of non-close-packed inverted photonic crystals. <i>Journal of Colloid and Interface Science</i> , 2010, 344, 298-307.	9.4	26
72	Monodisperse, high refractive index, highly charged ZnS colloids self assemble into crystalline colloidal arrays. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 131-137.	9.4	31

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73	Colloidal crystal growth monitored by Bragg diffraction interference fringes. Journal of Colloid and Interface Science, 2010, 350, 381-386.	9.4	22
74	Resonance Raman Study of the PH Dependence of Poly-L-lysine Conformations. , 2010, , .		0
75	Crystalline Colloidal Array Deep UV Narrow Band Radiation Filter. , 2010, , .		0
76	Circular Dichroism and UV Resonance Raman Study of the Impact of Salts and Alcohols on the Gibbs Free Energy Landscape of an Î±-helical Peptide. , 2010, , .		0
77	Glycine-Based Peptide Solution Conformational Preferences. , 2010, , .		0
78	UV Resonance Raman Spectroscopy Of Ethylguanidine. , 2010, , .		0
79	Interrogation of Fibril Aggregation Using UV Resonance Raman Spectroscopy. , 2010, , .		0
80	The Hunt for Underlying Electronic Transitions in Peptides: UV Resonance Raman Excitation Profiles and Depolarization Ratios. , 2010, , .		0
81	Dependence of Ethylguanidinium UV Resonance Raman Spectra on the Environment: Insights into the Arginine Sidechain in Peptide and Protein. , 2010, , .		0
82	Deep Ultraviolet Resonance Raman Spectroscopy of Explosives. , 2010, , .		1
83	TD-DFT and Ab Initio Calculations of the High-Energy Materials Ground and Excited States Elucidate the Experimental UV-Raman Data. , 2010, , .		0
84	Sodium Perchlorate Effects on the Helical Stability of a Mainly Alanine Peptide. Biophysical Journal, 2010, 98, 186-196.	0.5	25
85	UV Resonance Raman Elucidation of the Terminal and Internal Peptide Bond Conformations of Crystalline and Solution Oligoglycines. Journal of Physical Chemistry Letters, 2010, 1, 269-271.	4.6	15
86	UV Resonance Raman Investigation of the Conformations and Lowest Energy Allowed Electronic Excited States of Tri- and Tetraalanine: Charge Transfer Transitions. Journal of Physical Chemistry B, 2010, 114, 6661-6668.	2.6	14
87	Circular Dichroism and UV Resonance Raman Study of the Impact of Alcohols on the Gibbs Free Energy Landscape of an Î±-Helical Peptide. Biochemistry, 2010, 49, 3336-3342.	2.5	19
88	Deep Ultraviolet Resonance Raman Excitation Enables Explosives Detection. Applied Spectroscopy, 2010, 64, 425-432.	2.2	124
89	Photonic crystal multiple diffraction observed by angular-resolved reflection measurements. Physical Review B, 2009, 80, .	3.2	22
90	Circular dichroism and UVâ€ resonance Raman investigation of the temperature dependence of the conformations of linear and cyclic elastin. Biopolymers, 2009, 91, 52-60.	2.4	13

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91	Dependence of the AmI ² p Proline Raman Band on Peptide Conformation. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11252-11259.	2.6	15
92	UV Resonance Raman Determination of Molecular Mechanism of Poly(<i>N</i> -isopropylacrylamide) Volume Phase Transition. <i>Journal of Physical Chemistry B</i> , 2009, 113, 4248-4256.	2.6	166
93	Polymerized Crystalline Colloidal Array Sensing of High Glucose Concentrations. <i>Analytical Chemistry</i> , 2009, 81, 4978-4986.	6.5	156
94	Dependence of Photonic Crystal Nanocomposite Elasticity on Crystalline Colloidal Array Particle Size. <i>Macromolecules</i> , 2009, 42, 4403-4406.	4.8	14
95	Fabrication of Silica Shell Photonic Crystals through Flexible Core Templates. <i>Chemistry of Materials</i> , 2009, 21, 4608-4613.	6.7	30
96	Salt Dependence of an α -Helical Peptide Folding Energy Landscapes. <i>Biochemistry</i> , 2009, 48, 10818-10826.	2.5	32
97	Photonic crystal borax competitive binding carbohydrate sensing motif. <i>Analyst, The</i> , 2009, 134, 875.	3.5	28
98	Poly(vinyl alcohol) Rehydratable Photonic Crystal Sensor Materials. <i>Advanced Functional Materials</i> , 2008, 18, 1186-1193.	14.9	76
99	Dependence of Amide Vibrations on Hydrogen Bonding. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11873-11877.	2.6	173
100	Computational and Experimental Determination of the α -Helix Unfolding Reaction Coordinate. <i>Biochemistry</i> , 2008, 47, 2046-2050.	2.5	8
101	Progress in developing polymerized crystalline colloidal array sensors for point-of-care detection of myocardial ischemia. <i>Analyst, The</i> , 2008, 133, 385.	3.5	28
102	UV Resonance Raman Investigation of Electronic Transitions in α -Helical and Polyproline II-Like Conformations. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11762-11769.	2.6	23
103	Enabling Thermoreversible Physically Cross-Linked Polymerized Colloidal Array Photonic Crystals. <i>Chemistry of Materials</i> , 2008, 20, 7501-7509.	6.7	57
104	Polymerized PolyHEMA Photonic Crystals: α pH and Ethanol Sensor Materials. <i>Journal of the American Chemical Society</i> , 2008, 130, 3113-3119.	13.7	206
105	Dependence of Glycine CH ₂ Stretching Frequencies on Conformation, Ionization State, and Hydrogen Bonding. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5803-5812.	2.6	23
106	Light diffraction from colloidal crystals with low dielectric constant modulation: Simulations using single-scattering theory. <i>Physical Review B</i> , 2008, 77, 235404.	3.2	31
107	Mass Spectral Determination of Fasting Tear Glucose Concentrations in Nondiabetic Volunteers. <i>Clinical Chemistry</i> , 2007, 53, 1370-1372.	3.2	101
108	Tear Glucose Analysis for the Noninvasive Detection and Monitoring of Diabetes Mellitus. <i>Ocular Surface</i> , 2007, 5, 280-293.	4.4	155

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109	UV Raman Spatially Resolved Melting Dynamics of Isotopically Labeled Polyalanine Peptide: Slow α -Helix Melting Follows 3 ₁₀ -Helices and β -Bulges Premelting. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3280-3292.	2.6	32
110	UV Resonance Raman Measurements of Poly-L-Lysine's Conformational Energy Landscapes: Dependence on Perchlorate Concentration and Temperature. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7675-7680.	2.6	36
111	Peptide Bond Vibrational Coupling. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4271-4279.	2.6	47
112	Photonic Crystal Sensors for the Rapid Detection of Myocardial Ischemia. , 2007, , .		0
113	Analysis of tear glucose concentration with electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 332-336.	2.8	93
114	Cation identity dependence of crown ether photonic crystal Pb ²⁺ sensing. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 2121-2130.	3.7	16
115	Photonic crystal sensor for organophosphate nerve agents utilizing the organophosphorus hydrolase enzyme. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 2115-2124.	3.7	95
116	Peptide Secondary Structure Folding Reaction Coordinate: Correlation between UV Raman Amide III Frequency, β -Ramachandran Angle, and Hydrogen Bonding. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1928-1943.	2.6	172
117	UV Resonance Raman Investigation of a 3 ₁₀ -Helical Peptide Reveals a Rough Energy Landscape. <i>Biochemistry</i> , 2006, 45, 9068-9073.	2.5	14
118	Fast Responsive Crystalline Colloidal Array Photonic Crystal Glucose Sensors. <i>Analytical Chemistry</i> , 2006, 78, 5149-5157.	6.5	272
119	Direct UV Raman Monitoring of 3 ₁₀ -Helix and β -Bulge Premelting during α -Helix Unfolding. <i>Journal of the American Chemical Society</i> , 2006, 128, 13789-13795.	13.7	52
120	Progress toward the development of a point-of-care photonic crystal ammonia sensor. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 678-685.	3.7	63
121	Polymerized Crystalline Colloidal Array Photonic Crystals for Chemical Sensing and Optoelectronics. , 2006, , .		0
122	Epoxide functionalized polymerized crystalline colloidal arrays. <i>Sensors and Actuators B: Chemical</i> , 2005, 106, 373-377.	7.8	21
123	Photoswitchable Spirobenzopyran- Based Photochemically Controlled Photonic Crystals. <i>Advanced Functional Materials</i> , 2005, 15, 1401-1406.	14.9	98
124	Electrochemical Investigation of Pb ²⁺ Binding and Transport through a Polymerized Crystalline Colloidal Array Hydrogel Containing Benzo-18-crown-6. <i>Analytical Chemistry</i> , 2005, 77, 185-192.	6.5	33
125	UV Raman Examination of α -Helical Peptide Water Hydrogen Bonding. <i>Journal of the American Chemical Society</i> , 2005, 127, 2840-2841.	13.7	20
126	Modeling of Stimulated Hydrogel Volume Changes in Photonic Crystal Pb ²⁺ -Sensing Materials. <i>Journal of the American Chemical Society</i> , 2005, 127, 10753-10759.	13.7	112

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127	UV Resonance Raman Determination of Polyproline II, Extended 2.51-Helix, and $\hat{\nu}^2$ -Sheet $\hat{\nu}^1$ Angle Energy Landscape in Poly-L-Lysine and Poly-L-Glutamic Acid. <i>Journal of the American Chemical Society</i> , 2005, 127, 7712-7720.	13.7	112
128	UV Resonance Raman Thermal Unfolding Study of Trp-Cage Shows That It Is Not a Simple Two-State Miniprotein. <i>Journal of the American Chemical Society</i> , 2005, 127, 10943-10950.	13.7	144
129	Uncoupled Peptide Bond Vibrations in $\hat{\nu}^1$ -Helical and Polyproline II Conformations of Polyalanine Peptides. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3047-3052.	2.6	64
130	Simple Nanosecond to Minutes Transient Absorption Spectrophotometer. <i>Applied Spectroscopy</i> , 2005, 59, 1534-1540.	2.2	3
131	Steady-State and Transient Ultraviolet Resonance Raman Spectrometer for the 193-270 nm Spectral Region. <i>Applied Spectroscopy</i> , 2005, 59, 1541-1552.	2.2	82
132	Acetylcholinesterase-Based Organophosphate Nerve Agent Sensing Photonic Crystal. <i>Analytical Chemistry</i> , 2005, 77, 1596-1600.	6.5	151
133	Diffraction in crystalline colloidal-array photonic crystals. <i>Physical Review E</i> , 2004, 69, 066619.	2.1	76
134	Photonic Crystal Glucose-Sensing Material for Noninvasive Monitoring of Glucose in Tear Fluid. <i>Clinical Chemistry</i> , 2004, 50, 2353-2360.	3.2	335
135	Photonic crystal devices. <i>Ionics</i> , 2004, 10, 233-236.	2.4	12
136	Synthesis and Crystal Structure of 4-Amino-3-fluorophenylboronic Acid. <i>ChemInform</i> , 2004, 35, no.	0.0	0
137	Photochemically Controlled Cross-Linking in Polymerized Crystalline Colloidal Array Photonic Crystals. <i>Macromolecules</i> , 2004, 37, 8293-8296.	4.8	25
138	Assignments and Conformational Dependencies of the Amide III Peptide Backbone UV Resonance Raman Bands. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19020-19028.	2.6	103
139	Nanogel Nanosecond Photonic Crystal Optical Switching. <i>Journal of the American Chemical Society</i> , 2004, 126, 1493-1496.	13.7	324
140	UV Raman Demonstrates that $\hat{\nu}^1$ -Helical Polyalanine Peptides Melt to Polyproline II Conformations. <i>Journal of the American Chemical Society</i> , 2004, 126, 8433-8440.	13.7	135
141	Photoresponsive Azobenzene Photonic Crystals. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12637-12639.	2.6	62
142	Synthesis and Utilization of Monodisperse Hollow Polymeric Particles in Photonic Crystals. <i>Journal of the American Chemical Society</i> , 2004, 126, 7940-7945.	13.7	417
143	A General Photonic Crystal Sensing Motif: Creatinine in Bodily Fluids. <i>Journal of the American Chemical Society</i> , 2004, 126, 2971-2977.	13.7	294
144	Adventures with Smart Chemical Sensing. <i>Nanostructure Science and Technology</i> , 2004, , 145-172.	0.1	0

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145	Synthesis and crystal structure of 4-amino-3-fluorophenylboronic acid. <i>Tetrahedron Letters</i> , 2003, 44, 7719-7722.	1.4	39
146	Photochemically Controlled Photonic Crystals. <i>Advanced Functional Materials</i> , 2003, 13, 774-780.	14.9	80
147	Photonic Crystal Aqueous Metal Cation Sensing Materials. <i>Analytical Chemistry</i> , 2003, 75, 1676-1683.	6.5	148
148	Photonic Crystal Optrode Sensor for Detection of Pb ²⁺ in High Ionic Strength Environments. <i>Analytical Chemistry</i> , 2003, 75, 3915-3918.	6.5	96
149	Photonic Crystal Carbohydrate Sensors: A Low Ionic Strength Sugar Sensing. <i>Journal of the American Chemical Society</i> , 2003, 125, 3322-3329.	13.7	473
150	High Ionic Strength Glucose-Sensing Photonic Crystal. <i>Analytical Chemistry</i> , 2003, 75, 2316-2323.	6.5	386
151	UV Resonance Raman Study of the Spatial Dependence of α -Helix Unfolding. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3621-3624.	2.5	43
152	Real Space Analysis of Excitonic Interactions and Coherence Length in Helical Aggregates. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3524-3530.	2.5	14
153	UV Resonance Raman Spectroscopic Detection of Nitrate and Nitrite in Wastewater Treatment Processes. <i>Analytical Chemistry</i> , 2002, 74, 1458-1461.	6.5	108
154	Mesoscopic Monodisperse Ferromagnetic Colloids Enable Magnetically Controlled Photonic Crystals. <i>Journal of the American Chemical Society</i> , 2002, 124, 13864-13868.	13.7	142
155	Synthesis and Utilization of Monodisperse Superparamagnetic Colloidal Particles for Magnetically Controllable Photonic Crystals. <i>Chemistry of Materials</i> , 2002, 14, 1249-1256.	6.7	259
156	Self-ordered colloidal arrays as photonic crystal Hydrogels for trainable metal ion sensors and as Superparamagnetic materials. <i>Microscopy and Microanalysis</i> , 2002, 8, 320-321.	0.4	0
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