

# Sanford A Asher

## List of Publications by Year in descending order

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269  
papers

21,107  
citations

6233

80  
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11030

137  
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272  
docs citations

272  
times ranked

13178  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymerized colloidal crystal hydrogel films as intelligent chemical sensing materials. <i>Nature</i> , 1997, 389, 829-832.	13.7	1,857
2	Thermally Switchable Periodicities and Diffraction from Mesoscopically Ordered Materials. <i>Science</i> , 1996, 274, 959-963.	6.0	845
3	Photonic Crystal Chemical Sensors: A pH and Ionic Strength. <i>Journal of the American Chemical Society</i> , 2000, 122, 9534-9537.	6.6	554
4	Photonic Crystal Carbohydrate Sensors: A Low Ionic Strength Sugar Sensing. <i>Journal of the American Chemical Society</i> , 2003, 125, 3322-3329.	6.6	473
5	Synthesis and Utilization of Monodisperse Hollow Polymeric Particles in Photonic Crystals. <i>Journal of the American Chemical Society</i> , 2004, 126, 7940-7945.	6.6	417
6	High Ionic Strength Glucose-Sensing Photonic Crystal. <i>Analytical Chemistry</i> , 2003, 75, 2316-2323.	3.2	386
7	Self-Assembly Motif for Creating Submicron Periodic Materials. Polymerized Crystalline Colloidal Arrays. <i>Journal of the American Chemical Society</i> , 1994, 116, 4997-4998.	6.6	346
8	Photonic Crystal Glucose-Sensing Material for Noninvasive Monitoring of Glucose in Tear Fluid. <i>Clinical Chemistry</i> , 2004, 50, 2353-2360.	1.5	335
9	Nanogel Nanosecond Photonic Crystal Optical Switching. <i>Journal of the American Chemical Society</i> , 2004, 126, 1493-1496.	6.6	324
10	Intelligent Polymerized Crystalline Colloidal Arrays: A Novel Chemical Sensor Materials. <i>Analytical Chemistry</i> , 1998, 70, 780-791.	3.2	300
11	A General Photonic Crystal Sensing Motif: A Creatinine in Bodily Fluids. <i>Journal of the American Chemical Society</i> , 2004, 126, 2971-2977.	6.6	294
12	UV Resonance Raman-Selective Amide Vibrational Enhancement: A Quantitative Methodology for Determining Protein Secondary Structure. <i>Biochemistry</i> , 1998, 37, 2854-2864.	1.2	290
13	Fast Responsive Crystalline Colloidal Array Photonic Crystal Glucose Sensors. <i>Analytical Chemistry</i> , 2006, 78, 5149-5157.	3.2	272
14	Synthesis and Utilization of Monodisperse Superparamagnetic Colloidal Particles for Magnetically Controllable Photonic Crystals. <i>Chemistry of Materials</i> , 2002, 14, 1249-1256.	3.2	259
15	Preparation and Properties of Tailored Morphology, Monodisperse Colloidal Silica-Cadmium Sulfide Nanocomposites. <i>Journal of the American Chemical Society</i> , 1994, 116, 6739-6744.	6.6	258
16	Superparamagnetic Photonic Crystals. <i>Advanced Materials</i> , 2001, 13, 1681-1684.	11.1	236
17	Wavelength dependence of the preresonance Raman cross sections of CH <sub>3</sub> CN, SO <sub>4</sub> <sup>2-</sup> , ClO <sub>4</sub> <sup>-</sup> , and NO <sub>3</sub> <sup>-</sup> . <i>Journal of Chemical Physics</i> , 1985, 82, 1732-1740.	1.2	229
18	UV Resonance Raman excitation profiles of the aromatic amino acids. <i>Journal of the American Chemical Society</i> , 1986, 108, 3186-3197.	6.6	229

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19	Synthesis of Highly Charged, Monodisperse Polystyrene Colloidal Particles for the Fabrication of Photonic Crystals. <i>Journal of Colloid and Interface Science</i> , 2000, 232, 76-80.	5.0	210
20	2-D Array Photonic Crystal Sensing Motif. <i>Journal of the American Chemical Society</i> , 2011, 133, 9152-9155.	6.6	207
21	Photochemical Incorporation of Silver Quantum Dots in Monodisperse Silica Colloids for Photonic Crystal Applications. <i>Journal of the American Chemical Society</i> , 2001, 123, 12528-12535.	6.6	206
22	Polymerized PolyHEMA Photonic Crystals: a pH and Ethanol Sensor Materials. <i>Journal of the American Chemical Society</i> , 2008, 130, 3113-3119.	6.6	206
23	$\hat{\mu}$ -Helix Peptide Folding and Unfolding Activation Barriers: A Nanosecond UV Resonance Raman Study. <i>Journal of the American Chemical Society</i> , 1999, 121, 8074-8086.	6.6	201
24	Development of a New Optical Wavelength Rejection Filter: Demonstration of its Utility in Raman Spectroscopy. <i>Applied Spectroscopy</i> , 1984, 38, 847-850.	1.2	198
25	Dynamical Bragg diffraction from crystalline colloidal arrays. <i>Journal of Chemical Physics</i> , 1989, 91, 4932-4941.	1.2	189
26	Two-Dimensional Photonic Crystal Chemical and Biomolecular Sensors. <i>Analytical Chemistry</i> , 2015, 87, 5013-5025.	3.2	187
27	Dihedral $\hat{\nu}$ Angle Dependence of the Amide III Vibration: A Uniquely Sensitive UV Resonance Raman Secondary Structural Probe. <i>Journal of the American Chemical Society</i> , 2001, 123, 11775-11781.	6.6	185
28	Characterization of Optical Diffraction and Crystal Structure in Monodisperse Polystyrene Colloids. <i>Applied Spectroscopy</i> , 1984, 38, 297-304.	1.2	180
29	UV Resonance Raman Investigations of Peptide and Protein Structure and Dynamics. <i>Chemical Reviews</i> , 2012, 112, 2604-2628.	23.0	177
30	Ultraviolet resonance Raman characterization of photochemical transients of phenol, tyrosine, and tryptophan. <i>Journal of the American Chemical Society</i> , 1986, 108, 905-912.	6.6	176
31	UV Resonance Raman Spectroscopy for Analytical, Physical, and Biophysical Chemistry. <i>Analytical Chemistry</i> , 1993, 65, 59A-66A.	3.2	174
32	Entropic trapping of macromolecules by mesoscopic periodic voids in a polymer hydrogel. <i>Nature</i> , 1999, 397, 141-144.	13.7	174
33	Optically Nonlinear Bragg Diffracting Nanosecond Optical Switches. <i>Physical Review Letters</i> , 1997, 78, 3860-3863.	2.9	173
34	Dependence of Amide Vibrations on Hydrogen Bonding. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11873-11877.	1.2	173
35	Peptide Secondary Structure Folding Reaction Coordinate: A Correlation between UV Raman Amide III Frequency, $\hat{\nu}$ Ramachandran Angle, and Hydrogen Bonding. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1928-1943.	1.2	172
36	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.	1.2	166

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37	Fabrication of Large Area Two-Dimensional Colloidal Crystals. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6117-6120.	7.2	161
38	A Photonic Crystal Protein Hydrogel Sensor for <i>Candida albicans</i> . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13036-13040.	7.2	159
39	Polymerized Crystalline Colloidal Array Sensing of High Glucose Concentrations. <i>Analytical Chemistry</i> , 2009, 81, 4978-4986.	3.2	156
40	Tear Glucose Analysis for the Noninvasive Detection and Monitoring of Diabetes Mellitus. <i>Ocular Surface</i> , 2007, 5, 280-293.	2.2	155
41	Acetylcholinesterase-Based Organophosphate Nerve Agent Sensing Photonic Crystal. <i>Analytical Chemistry</i> , 2005, 77, 1596-1600.	3.2	151
42	Photonic Crystal Aqueous Metal Cation Sensing Materials. <i>Analytical Chemistry</i> , 2003, 75, 1676-1683.	3.2	148
43	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.	6.6	144
44	Mesoscopic Monodisperse Ferromagnetic Colloids Enable Magnetically Controlled Photonic Crystals. <i>Journal of the American Chemical Society</i> , 2002, 124, 13864-13868.	6.6	142
45	UV Raman Demonstrates that $\alpha$ -Helical Polyalanine Peptides Melt to Polyproline II Conformations. <i>Journal of the American Chemical Society</i> , 2004, 126, 8433-8440.	6.6	135
46	UV resonance Raman studies of peptide conformation in poly(L-lysine), poly(L-glutamic acid), and model complexes: the basis for protein secondary structure determinations. <i>Journal of the American Chemical Society</i> , 1989, 111, 4295-4305.	6.6	124
47	Deep Ultraviolet Resonance Raman Excitation Enables Explosives Detection. <i>Applied Spectroscopy</i> , 2010, 64, 425-432.	1.2	124
48	UV Raman Determination of the Environment and Solvent Exposure of Tyr and Trp Residues. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9595-9602.	1.2	115
49	Emulsifier-Free Emulsion Polymerization Produces Highly Charged, Monodisperse Particles for Near Infrared Photonic Crystals. <i>Journal of Colloid and Interface Science</i> , 2002, 248, 41-46.	5.0	113
50	N-Methylacetamide and Its Hydrogen-Bonded Water Molecules Are Vibrationally Coupled. <i>Journal of the American Chemical Society</i> , 1994, 116, 11141-11142.	6.6	112
51	UV Resonance Raman Determination of Protein Acid Denaturation: Selective Unfolding of Helical Segments of Horse Myoglobin. <i>Biochemistry</i> , 1998, 37, 2865-2872.	1.2	112
52	Modeling of Stimulated Hydrogel Volume Changes in Photonic Crystal Pb <sup>2+</sup> -Sensing Materials. <i>Journal of the American Chemical Society</i> , 2005, 127, 10753-10759.	6.6	112
53	UV Resonance Raman Determination of Polyproline II, Extended 2.51-Helix, and $\beta$ -Sheet Angle Energy Landscape in Poly-L-Lysine and Poly-L-Glutamic Acid. <i>Journal of the American Chemical Society</i> , 2005, 127, 7712-7720.	6.6	112
54	UV Resonance Raman Spectroscopy Using a New cw Laser Source: Convenience and Experimental Simplicity. <i>Applied Spectroscopy</i> , 1993, 47, 628-633.	1.2	110

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55	Development of a new UV resonance Raman spectrometer for the 217-400 nm spectral region. Review of Scientific Instruments, 1983, 54, 1657-1662.	0.6	109
56	UV Resonance Raman Spectroscopic Detection of Nitrate and Nitrite in Wastewater Treatment Processes. Analytical Chemistry, 2002, 74, 1458-1461.	3.2	108
57	Ultraviolet resonance Raman spectrometry for detection and speciation of trace polycyclic aromatic hydrocarbons. Analytical Chemistry, 1984, 56, 720-724.	3.2	106
58	Assignments and Conformational Dependencies of the Amide III Peptide Backbone UV Resonance Raman Bands. Journal of Physical Chemistry B, 2004, 108, 19020-19028.	1.2	103
59	Mass Spectral Determination of Fasting Tear Glucose Concentrations in Nondiabetic Volunteers. Clinical Chemistry, 2007, 53, 1370-1372.	1.5	101
60	2D Photonic Crystal Protein Hydrogel Coulometer for Sensing Serum Albumin Ligand Binding. Analytical Chemistry, 2014, 86, 4840-4847.	3.2	101
61	Polymerized crystalline colloidal array chemical-sensing materials for detection of lead in body fluids. Analytical and Bioanalytical Chemistry, 2002, 373, 632-638.	1.9	98
62	Photoswitchable Spirobenzopyran- Based Photochemically Controlled Photonic Crystals. Advanced Functional Materials, 2005, 15, 1401-1406.	7.8	98
63	Photonic Crystal Optrode Sensor for Detection of Pb <sup>2+</sup> in High Ionic Strength Environments. Analytical Chemistry, 2003, 75, 3915-3918.	3.2	96
64	Photonic crystal sensor for organophosphate nerve agents utilizing the organophosphorus hydrolase enzyme. Analytical and Bioanalytical Chemistry, 2007, 389, 2115-2124.	1.9	95
65	Review of explosive detection methodologies and the emergence of standoff deep UV resonance Raman. Journal of Raman Spectroscopy, 2016, 47, 124-141.	1.2	95
66	Development of an Intelligent Polymerized Crystalline Colloidal Array Colorimetric Reagent. Analytical Chemistry, 2001, 73, 5038-5042.	3.2	94
67	UV resonance Raman studies of acetone, acetamide, and N-methylacetamide: models for the peptide bond. The Journal of Physical Chemistry, 1985, 89, 3805-3814.	2.9	93
68	Analysis of tear glucose concentration with electrospray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2007, 18, 332-336.	1.2	93
69	Transient UV Raman Spectroscopy Finds No Crossing Barrier between the Peptide $\alpha$ -Helix and Fully Random Coil Conformation. Journal of the American Chemical Society, 2001, 123, 2388-2392.	6.6	90
70	UV Resonance Raman Spectroscopy for Analytical, Physical, and Biophysical Chemistry. Analytical Chemistry, 1993, 65, 201A-210A.	3.2	87
71	UV resonance Raman spectroscopy of the aromatic amino acids and myoglobin. Journal of the American Chemical Society, 1984, 106, 5008-5010.	6.6	86
72	Ultraviolet resonance Raman excitation profiles of tyrosine: dependence of Raman cross sections on excited-state intermediates. Journal of the American Chemical Society, 1988, 110, 1005-1011.	6.6	86

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73	UV resonance Raman spectroscopy for analytical, physical, and biophysical chemistry. Part 2. <i>Analytical Chemistry</i> , 1993, 65, 201A-210A.	3.2	86
74	Determination of CO orientation in myoglobin by single-crystal infrared linear dichroism. <i>Journal of the American Chemical Society</i> , 1994, 116, 4139-4140.	6.6	86
75	UV Raman Determination of the .pi..pi.* Excited State Geometry of N-Methylacetamide: Vibrational Enhancement Pattern. <i>Journal of the American Chemical Society</i> , 1995, 117, 2884-2895.	6.6	86
76	Aluminum Film-Over-Nanosphere Substrates for Deep-UV Surface-Enhanced Resonance Raman Spectroscopy. <i>Nano Letters</i> , 2016, 16, 7968-7973.	4.5	86
77	Mesoscopically Periodic Photonic-Crystal Materials for Linear and Nonlinear Optics and Chemical Sensing. <i>MRS Bulletin</i> , 1998, 23, 44-50.	1.7	84
78	Two-Dimensional Photonic Crystal Sensors for Visual Detection of Lectin Concanavalin A. <i>Analytical Chemistry</i> , 2014, 86, 9036-9041.	3.2	83
79	Responsive Photonic Crystal Carbohydrate Hydrogel Sensor Materials for Selective and Sensitive Lectin Protein Detection. <i>ACS Sensors</i> , 2017, 2, 1474-1481.	4.0	83
80	Steady-State and Transient Ultraviolet Resonance Raman Spectrometer for the 193-270 nm Spectral Region. <i>Applied Spectroscopy</i> , 2005, 59, 1541-1552.	1.2	82
81	Photochemically Controlled Photonic Crystals. <i>Advanced Functional Materials</i> , 2003, 13, 774-780.	7.8	80
82	Ultraviolet resonance Raman studies of trans and cis peptides: photochemical consequences of the twisted .pi.* excited state. <i>Journal of the American Chemical Society</i> , 1991, 113, 1155-1163.	6.6	79
83	Creation of Templated Complex Topological Morphologies in Colloidal Silica. <i>Journal of the American Chemical Society</i> , 1994, 116, 6745-6747.	6.6	79
84	Ultraviolet Raman spectroscopy characterizes chemical vapor deposition diamond film growth and oxidation. <i>Journal of Applied Physics</i> , 1995, 77, 5916-5923.	1.1	78
85	Two-dimensional array Debye ring diffraction protein recognition sensing. <i>Chemical Communications</i> , 2013, 49, 6337.	2.2	78
86	Diffraction in crystalline colloidal-array photonic crystals. <i>Physical Review E</i> , 2004, 69, 066619.	0.8	76
87	Poly(vinyl alcohol) Rehydratable Photonic Crystal Sensor Materials. <i>Advanced Functional Materials</i> , 2008, 18, 1186-1193.	7.8	76
88	Photonic crystal protein hydrogel sensor materials enabled by conformationally induced volume phase transition. <i>Chemical Science</i> , 2016, 7, 4557-4562.	3.7	72
89	Two-Dimensional Photonic Crystal Surfactant Detection. <i>Analytical Chemistry</i> , 2012, 84, 6416-6420.	3.2	71
90	Nanosecond Switchable Polymerized Crystalline Colloidal Array Bragg Diffracting Materials. <i>Journal of the American Chemical Society</i> , 1998, 120, 6525-6530.	6.6	70

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91	Elucidating Peptide and Protein Structure and Dynamics: UV Resonance Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 334-344.	2.1	65
92	[22] Resonance raman spectroscopy of hemoglobin. <i>Methods in Enzymology</i> , 1981, 76, 371-413.	0.4	64
93	Uncoupled Peptide Bond Vibrations in $\alpha$ -Helical and Polyproline II Conformations of Polyalanine Peptides. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3047-3052.	1.2	64
94	Progress toward the development of a point-of-care photonic crystal ammonia sensor. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 678-685.	1.9	63
95	Photoresponsive Azobenzene Photonic Crystals. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12637-12639.	1.2	62
96	Enabling Thermoreversible Physically Cross-Linked Polymerized Colloidal Array Photonic Crystals. <i>Chemistry of Materials</i> , 2008, 20, 7501-7509.	3.2	57
97	Resonance Raman spectroscopy of Mn(III) etioporphyrin I at the $\pi$ - $\pi^*$ and charge transfer bands: The use of charge transfer bands to monitor the complexation state of metalloporphyrins. <i>Journal of Chemical Physics</i> , 1976, 64, 4115-4125.	1.2	56
98	Glycylglycine $\pi$ - $\pi^*$ and Charge Transfer Transition Moment Orientations: A Near-Resonance Raman Single-Crystal Measurements. <i>Journal of the American Chemical Society</i> , 1996, 118, 9716-9726.	6.6	56
99	High-Repetition-Rate Excimer-Based UV Laser Excitation Source Avoids Saturation in Resonance Raman Measurements of Tyrosinate and Pyrene. <i>Applied Spectroscopy</i> , 1987, 41, 1268-1275.	1.2	54
100	Nanosecond UV Resonance Raman Examination of Initial Steps in $\alpha$ -Helix Secondary Structure Evolution. <i>Journal of the American Chemical Society</i> , 1999, 121, 4076-4077.	6.6	53
101	Resonance Raman Examination of the Electronic Excited States of Glycylglycine and Other Dipeptides: A Observation of a Carboxylate $\pi$ -Amide Charge Transfer Transition. <i>Journal of the American Chemical Society</i> , 1996, 118, 9705-9715.	6.6	52
102	Direct UV Raman Monitoring of 310-Helix and $\pi$ -Bulge Premelting during $\alpha$ -Helix Unfolding. <i>Journal of the American Chemical Society</i> , 2006, 128, 13789-13795.	6.6	52
103	Ultraviolet Resonance Raman Examination of Horse Apomyoglobin Acid Unfolding Intermediates. <i>Biochemistry</i> , 1999, 38, 8196-8203.	1.2	51
104	Raman Studies of Solution Polyglycine Conformations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6636-6641.	1.2	51
105	Different Conformers and Protonation States of Dipeptides Probed by Polarized Raman, UV-Resonance Raman, and FTIR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1999, 103, 372-384.	1.2	49
106	Synthesis of Highly Fluorinated Monodisperse Colloids for Low Refractive Index Crystalline Colloidal Arrays. <i>Journal of the American Chemical Society</i> , 1998, 120, 6518-6524.	6.6	48
107	Peptide Bond Vibrational Coupling. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4271-4279.	1.2	47
108	Responsive ionic liquid-polymer 2D photonic crystal gas sensors. <i>Analyst</i> , 2014, 139, 6379-6386.	1.7	47

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109	Metalloporphyrin gas and condensed-phase resonance Raman studies: the role of vibrational anharmonicities as determinants of Raman frequencies. <i>Journal of the American Chemical Society</i> , 1983, 105, 7244-7251.	6.6	46
110	UV resonance Raman saturation spectroscopy of tryptophan derivatives: photophysical relaxation measurements with vibrational band resolution. <i>Journal of the American Chemical Society</i> , 1990, 112, 2892-2900.	6.6	46
111	Deep-Ultraviolet Resonance Raman Excitation Profiles of NH <sub>4</sub> <sup>+</sup> , PETN, TNT, HMX, and RDX. <i>Applied Spectroscopy</i> , 2012, 66, 1013-1021.	1.2	46
112	Ultraviolet resonance Raman spectroscopic markers for protein structure and dynamics. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 103, 223-229.	5.8	46
113	UV Resonance Raman Ground and Excited State Studies of Amide and Peptide Isomerization Dynamics. <i>Journal of the American Chemical Society</i> , 1997, 119, 1116-1120.	6.6	45
114	UV Raman Excitation Profiles of Imidazole, Imidazolium, and Water. <i>Applied Spectroscopy</i> , 1988, 42, 83-90.	1.2	44
115	Ultraviolet resonance Raman study of the pyrene S <sub>4</sub> , S <sub>3</sub> , and S <sub>2</sub> excited electronic states. <i>Journal of Chemical Physics</i> , 1988, 89, 2649-2661.	1.2	44
116	UV resonance Raman studies of DNA-pyrene interactions: optical decoupling Raman spectroscopy selectively examines external site bound pyrene. <i>Journal of the American Chemical Society</i> , 1993, 115, 6349-6356.	6.6	44
117	Visual detection of 2,4,6-trinitrotoluene by molecularly imprinted colloidal array photonic crystal. <i>Journal of Hazardous Materials</i> , 2016, 316, 87-93.	6.5	44
118	Photothermal compression of colloidal crystals. <i>Journal of Chemical Physics</i> , 1991, 94, 711-717.	1.2	43
119	Dependence of the Peptide Amide III Vibration on the $\phi$ Dihedral Angle. <i>Journal of the American Chemical Society</i> , 2001, 123, 7433-7434.	6.6	43
120	UV Resonance Raman Study of the Spatial Dependence of $\alpha$ -Helix Unfolding. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3621-3624.	1.1	43
121	Asymmetric Free-Standing 2-D Photonic Crystal Films and Their Janus Particles. <i>Journal of the American Chemical Society</i> , 2013, 135, 11397-11401.	6.6	43
122	Hydrophobic Collapse Initiates the Poly( <i>N</i> -isopropylacrylamide) Volume Phase Transition Reaction Coordinate. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3008-3014.	1.2	43
123	UV resonance Raman saturation spectroscopy measures protein aromatic amino acid excited state relaxation rates. <i>Journal of the American Chemical Society</i> , 1990, 112, 8789-8799.	6.6	42
124	Applications of a New 206.5-nm Continuous-Wave Laser Source: UV Raman Determination of Protein Secondary Structure and CVD Diamond Material Properties. <i>Applied Spectroscopy</i> , 1996, 50, 1459-1468.	1.2	40
125	UV Raman Microspectroscopy: Spectral and Spatial Selectivity with Sensitivity and Simplicity. <i>Applied Spectroscopy</i> , 1997, 51, 81-86.	1.2	39
126	Synthesis and crystal structure of 4-amino-3-fluorophenylboronic acid. <i>Tetrahedron Letters</i> , 2003, 44, 7719-7722.	0.7	39



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127	Synthesis of Dyed Monodisperse Poly(methyl methacrylate) Colloids for the Preparation of Submicron Periodic Light-Absorbing Arrays. <i>Macromolecules</i> , 1995, 28, 6533-6538.	2.2	38
128	Assignment of a new conformation-sensitive UV resonance Raman band in peptides and proteins. <i>Journal of the American Chemical Society</i> , 1988, 110, 8547-8548.	6.6	37
129	Fortuitously Superimposed Lattice Plane Secondary Diffraction from Crystalline Colloidal Arrays. <i>Journal of the American Chemical Society</i> , 1997, 119, 2729-2732.	6.6	37
130	Crown-annelated 9,10-bis(1,3-dithiol-2-ylidene)-9,10-dihydroanthracene derivatives: a new efficient transducer in the electrochemical and spectroscopic monitoring of metal complexation. <i>Chemical Communications</i> , 2000, , 295-296.	2.2	37
131	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.	1.3	37
132	Self-assembly and ordering of electrostatically stabilized silica suspensions. <i>Journal of Colloid and Interface Science</i> , 1992, 153, 188-198.	5.0	36
133	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.	1.2	36
134	Periodicity-Controlled Two-Dimensional Crystalline Colloidal Arrays. <i>Langmuir</i> , 2011, 27, 15230-15235.	1.6	36
135	A new selective technique for characterization of polycyclic aromatic hydrocarbons in complex samples: UV resonance Raman spectrometry of coal liquids. <i>Analytical Chemistry</i> , 1984, 56, 2258-2261.	3.2	35
136	Dielectric Stack Filters for Ex Situ and In Situ UV Optical-Fiber Probe Raman Spectroscopic Measurements. <i>Applied Spectroscopy</i> , 1997, 51, 1722-1729.	1.2	35
137	Crystalline Colloidal Array of Water Voids in Hydrogels: Direct Evidence for Entropic Trapping of Flexible Polymers. <i>Journal of the American Chemical Society</i> , 1999, 121, 4040-4046.	6.6	35
138	Uncoupled Adjacent Amide Vibrations in Small Peptides. <i>Journal of the American Chemical Society</i> , 2000, 122, 9028-9029.	6.6	34
139	Vertical spreading of two-dimensional crystalline colloidal arrays. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6099-6102.	2.7	34
140	Increased volume responsiveness of macroporous hydrogels. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2900-2903.	4.0	34
141	Thermal diffuse scattering from colloidal crystals. <i>Journal of Chemical Physics</i> , 1991, 95, 1249-1257.	1.2	33
142	Nanosecond photothermal dynamics in colloidal suspension. <i>Journal of Applied Physics</i> , 1992, 71, 1116-1123.	1.1	33
143	Electrochemical Investigation of Pb <sup>2+</sup> Binding and Transport through a Polymerized Crystalline Colloidal Array Hydrogel Containing Benzo-18-crown-6. <i>Analytical Chemistry</i> , 2005, 77, 185-192.	3.2	33
144	Solid State and Solution Nitrate Photochemistry: Photochemical Evolution of the Solid State Lattice. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4279-4287.	1.1	33

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145	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.	1.1	33
146	UV Resonance Raman Characterization of Polycyclic Aromatic Hydrocarbons in Coal Liquid Distillates. <i>Applied Spectroscopy</i> , 1988, 42, 267-272.	1.2	32
147	Evaluation of the $\pi$ -bonding ability of imidazole: structure determination and characterization of catena-(H <sub>2</sub> O) <sub>2</sub> (1-CH <sub>3</sub> im) <sub>2</sub> Mg( $\mu$ -CN)(CN) <sub>4</sub> (1-CH <sub>3</sub> im)Fe(III). <i>Journal of Inorganic Chemistry</i> , 1991, 30, 2120-2129.	1.9	32
148	Selective examination of heme protein azide ligand-distal globin interactions by vibrational circular dichroism. <i>Journal of the American Chemical Society</i> , 1992, 114, 6864-6867.	6.6	32
149	UV Raman Spatially Resolved Melting Dynamics of Isotopically Labeled Polyalanine Peptide: Slow $\alpha$ -Helix Melting Follows $3^{10}$ -Helices and $\beta$ -Bulges Premelting. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3280-3292.	1.2	32
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