Frank V Bright

List of Publications by Year in Descending Order

256 papers	9,552 citations	53 h-index	87 g-index
267 ext. papers	9,993 ext. citations	5.3 avg, IF	5.88 L-index

#	Paper	IF	Citations
256	Controlling Microarray Feature Spreading and Response Stability on Porous Silicon Platforms by Using Alkene-Terminal Ionic Liquids and UV Hydrosilylation. *Langmuir*, **2020**, 36, 5474-5482	4	1
255	Effects of Acetone Vapor on the Exciton Band Photoluminescence Emission from Single- and Few-Layer WS on Template-Stripped Gold. *Sensors*, **2019**, 19,	3.8	3
254	Interplay Between Silicon Nanocrystal Size and Local Environment Within Porous Silicon on the Analyte-Dependent Photoluminescence Response. *Applied Spectroscopy*, **2019**, 73, 1218-1227	3.1	
253	Exploiting the 3-Aminopropyltriethoxysilane (APTES) autocatalytic nature to create bioconjugated microarrays on hydrogen-passivated porous silicon. *Talanta*, **2018**, 177, 26-33	6.2	8
252	Gallium indium eutectic masking prior to porous silicon formation creates unique spatially-dependent chemistries. *Analytica Chimica Acta*, **2018**, 1032, 147-153	6.6	1
251	Three-Dimensional pH Mapping within Model Hybrid Xerogel Thin Films. *Langmuir*, **2017**, 33, 4119-4128	4	0
250	Origin of Analyte-Induced Porous Silicon Photoluminescence Quenching. *Applied Spectroscopy*, **2017**, 71, 2136-2145	3.1	0
249	Ionic Liquids Can Permanently Modify Porous Silicon Surface Chemistry. *Chemistry - A European Journal*, **2016**, 22, 11677-84	4.8	4
248	Instrumentation for Reliably Determining Porous Silicon Photoluminescence Responses to Gaseous Analyte Vapors. *Applied Spectroscopy*, **2016**, 70, 1974-1980	3.1	3
247	Hybrid Sol-Gel-Derived Films That Spontaneously Form Complex Surface Topographies. *Langmuir*, **2016**, 32, 10113-10119	4	2
246	Contact Pin-Printing onto Porous Silicon for Creating Microarrays with High Chemical Diversity. *Applied Spectroscopy*, **2016**, 70, 1662-1675	3.1	2
245	Spatial Characteristics of Contact Pin-Printed Silanes and Bioconjugates on Oxidized Porous Silicon. *Journal of Physical Chemistry C*, **2016**, 120, 6011-6019	3.8	5
244	Robust pH-responsive group IV metal oxide functionalized porous silicon platforms. *Materials Letters*, **2016**, 181, 47-51	3.3	6
243	Growth mechanism of largescale MoS2monolayer by sulfurization of MoO3film. *Materials Research Express*, **2016**, 3, 075009	1.7	29
242	Ratiometric, filter-free optical sensor based on a complementary metal oxide semiconductor buried double junction photodiode. *Analytica Chimica Acta*, **2015**, 884, 77-82	6.6	1
241	Creating diversified response profiles from a single quenchometric sensor element by using phase-resolved luminescence. *Sensors*, **2015**, 15, 760-8	3.8	
240	Ecofriendly Antifouling Marine Coatings. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 559-565	8.3	124

239	Probing nanoscale chemical segregation and surface properties of antifouling hybrid xerogel films. *Langmuir*, **2015**, 31, 3510-7	4	8
238	Effects of Polyhexamethylene Biguanide and Polyquaternium-1 on Phospholipid Bilayer Structure and Dynamics. *Journal of Physical Chemistry B*, **2015**, 119, 10531-42	3.4	8
237	Extremely strong tubular stacking of aromatic oligoamide macrocycles. *Chemical Science*, **2015**, 6, 152-157	9.4	28
236	Spectroscopic characteristics of carbon dots (C-dots) derived from carbon fibers and conversion to sulfur-bridged C-dots nanosheets. *Applied Spectroscopy*, **2015**, 69, 1082-90	3.1	14
235	Rapid, nondestructive denim fiber bundle characterization using luminescence hyperspectral image analysis. *Applied Spectroscopy*, **2015**, 69, 103-14	3.1	2
234	Optimizing Pin-Printed and Hydrosilylated Microarray Spot Density on Porous Silicon Platforms. *Langmuir*, **2015**, 31, 11370-7	4	13
233	Xerogel Coatings Produced by the Sol□Gel Process as Anti-Fouling, Fouling-Release Surfaces: From Lab Bench to Commercial Reality. *ChemNanoMat*, **2015**, 1, 148-154	3.5	14
232	pH-dependent spectroscopy of tetracycline and its analogs. *Journal of Fluorescence*, **2014**, 24, 1183-98	2.4	8
231	Environmentally benign sol-gel antifouling and foul-releasing coatings. *Accounts of Chemical Research*, **2014**, 47, 678-87	24.3	105
230	Hydrogels: Pd-Porphyrin-Cross-Linked Implantable Hydrogels with Oxygen-Responsive Phosphorescence (Adv. Healthcare Mater. 6/2014). *Advanced Healthcare Materials*, **2014**, 3, 890-890	10.1	
229	Pd-porphyrin-cross-linked implantable hydrogels with oxygen-responsive phosphorescence. *Advanced Healthcare Materials*, **2014**, 3, 891-6	10.1	41
228	Aqueous self-assembly of giant bottlebrush block copolymer surfactants as shape-tunable building blocks. *Journal of the American Chemical Society*, **2014**, 136, 7762-70	16.4	165
227	Enhanced performance from a hybrid quenchometric deoxyribonucleic acid (DNA) silica xerogel gaseous oxygen sensing platform. *Applied Spectroscopy*, **2014**, 68, 1302-5	3.1	1
226	4. Contemporary research in contact lens care. *Contact Lens and Anterior Eye*, **2013**, 36 Suppl 1, S22-7	4.1	4
225	Hidden Properties of Carbon Dots Revealed After HPLC Fractionation. *Journal of Physical Chemistry Letters*, **2013**, 4, 239-43	6.4	96
224	2. Contact lens care and ocular surface homeostasis. *Contact Lens and Anterior Eye*, **2013**, 36 Suppl 1, S9-13	4.1	6
223	3. Ocular surface health with contact lens wear. *Contact Lens and Anterior Eye*, **2013**, 36 Suppl 1, S14-21	4.1	18
222	Filterless optical oxygen sensor based on a CMOS buried double junction photodiode. *Sensors and Actuators B: Chemical*, **2013**, 176, 729-735	8.5	8

221	An in-depth study linking the infrared spectroscopy and photoluminescence of porous silicon during ambient hydrogen peroxide oxidation. *Applied Spectroscopy*, **2013**, 67, 570-7	3.1	14
220	Porous Nanostructured Encapsulation and Immobilization Materials for Optical Biosensors. *IEEE Journal of Selected Topics in Quantum Electronics*, **2012**, 18, 1147-1159	3.8	6
219	A comparison of the antifouling/foul-release characteristics of non-biocidal xerogel and commercial coatings toward micro- and macrofouling organisms. *Biofouling*, **2012**, 28, 511-23	3.3	42
218	Parts per Million Water in Gaseous Vapor Streams Dramatically Accelerates Porous Silicon Oxidation. *Journal of Physical Chemistry C*, **2012**, 116, 23168-23174	3.8	11
217	Interfacial Solvation within n-Alkane Monolayers in Contact with Supercritical CO2. *Journal of Physical Chemistry C*, **2012**, 116, 18340-18346	3.8	2
216	Link between O2SiH infrared band amplitude and porous silicon photoluminescence during ambient O3 oxidation. *Applied Spectroscopy*, **2012**, 66, 951-7	3.1	12
215	Hybrid oxygen-responsive reflective Bragg grating platforms. *Analytical Chemistry*, **2012**, 84, 1402-7	7.8	7
214	Self-assembling subnanometer pores with unusual mass-transport properties. *Nature Communications*, **2012**, 3, 949	17.4	139
213	Spontaneous multiscale phase separation within fluorinated xerogel coatings for fouling-release surfaces. *Biofouling*, **2012**, 28, 143-57	3.3	15
212	High-throughput screening system for creating and assessing surface-modified porous silicon. *Applied Spectroscopy*, **2012**, 66, 1171-8	3.1	12
211	A preservative-and-fluorescein interaction model for benign multipurpose solution-associated transient corneal hyperfluorescence. *Cornea*, **2012**, 31, 1480-8	3.1	31
210	CMOS direct time interval measurement of long-lived luminescence lifetimes. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 5-9	0.9	1
209	Binding affinities of CRBPI and CRBPII for 9-cis-retinoids. *Biochimica Et Biophysica Acta - General Subjects*, **2011**, 1810, 514-8	4	21
208	High-pressure total internal reflection fluorescence apparatus. *Applied Spectroscopy*, **2011**, 65, 1233-9	3.1	2
207	Tetracycline speciation during molecular imprinting in xerogels results in class-selective binding. *Analyst, The*, **2011**, 136, 749-55	5	18
206	The control of marine biofouling on xerogel surfaces with nanometer-scale topography. *Biofouling*, **2011**, 27, 137-49	3.3	42
205	CMOS Imaging of Temperature Effects on Pin-Printed Xerogel Sensor Microarrays. *IEEE Transactions on Biomedical Circuits and Systems*, **2011**, 5, 189-96	5.1	3
204	'Liquid litmus': chemosensory pH-responsive photonic ionic liquids. *Chemical Communications*, **2011**, 47, 4775-7	5.8	58

203	Fluorescence energy transfer efficiency in labeled yeast cytochrome c: a rapid screen for ion biocompatibility in aqueous ionic liquids. *Physical Chemistry Chemical Physics*, **2011**, 13, 3642-4	3.6	33
202	Synthesis and evaluation of tetracycline imprinted xerogels: comparison of experiment and computational modeling. *Analytica Chimica Acta*, **2011**, 684, 63-71	6.6	19
201	Contact CMOS imaging of gaseous oxygen sensor array. *Sensors and Actuators B: Chemical*, **2011**, 157, 408-16	8.5	13
200	Heterogeneous integration of Polymer Porous Photonic Bandgap Structure with Xerogel based Biochemical Sensors. *Materials Research Society Symposia Proceedings*, **2011**, 1301, 213		2
199	CMOS Imaging of Pin-Printed Xerogel-Based Luminescent Sensor Microarrays. *IEEE Sensors Journal*, **2010**, 10, 1824-1832	4	5
198	Reductive side of water splitting in artificial photosynthesis: new homogeneous photosystems of great activity and mechanistic insight. *Journal of the American Chemical Society*, **2010**, 132, 15480-3	16.4	283
197	Probe-dependent microenvironments within biodegradable films formed from poly(l-lactic acid) and pluronic 104. *Applied Spectroscopy*, **2010**, 64, 359-64	3.1	1
196	Photophysics associated with site selectively templated and tagged xerogel sensor platforms. *Applied Spectroscopy*, **2010**, 64, 714-9	3.1	3
195	Dynamics within site selectively templated and tagged xerogel sensor platforms. *Applied Spectroscopy*, **2010**, 64, 1073-7	3.1	1
194	The role of surface energy and water wettability in aminoalkyl/fluorocarbon/hydrocarbon-modified xerogel surfaces in the control of marine biofouling. *Biofouling*, **2010**, 26, 235-46	3.3	56
193	Determining the protein drug release characteristics and cell adhesion to a PLLA or PLGA biodegradable polymer membrane. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 27-37	5.4	15
192	Application of gold quenching of luminescence to improve oxygen sensing using a ruthenium (4,7-diphenyl-1,10-phenanthroline)3Cl2:TEOS thin film. *Sensors and Actuators B: Chemical*, **2010**, 147, 581-586	8.5	14
191	Ecofriendly Protection from Biofouling of the Monitoring System at Pantelleria's Cala Gadir Underwater Archaeological Site, Sicily. *International Journal of Nautical Archaeology*, **2009**, 38, 417-421	0.2	15
190	Xerogel package. *Chemometrics and Intelligent Laboratory Systems*, **2009**, 96, 70-74	3.8	
189	Phase separation at the surface of poly(ethylene oxide)-containing biodegradable poly(L-lactic acid) blends. *Langmuir*, **2009**, 25, 11467-71	4	6
188	Spectroscopic system for direct lanthanide photoluminescence spectroscopy with nanomolar detection limits. *Applied Spectroscopy*, **2009**, 63, 483-93	3.1	16
187	Dynamics of loop 1 of domain I in human serum albumin when dissolved in ionic liquids. *Journal of Physical Chemistry B*, **2009**, 113, 12825-30	3.4	63
186	Antifouling character of 'active' hybrid xerogel coatings with sequestered catalysts for the activation of hydrogen peroxide. *Biofouling*, **2009**, 25, 21-33	3.3	46

185	Sensitivity-Enhanced CMOS Phase Luminometry System Using Xerogel-Based Sensors. *IEEE Transactions on Biomedical Circuits and Systems*, **2009**, 3, 304-11	5.1	15
184	Feature-based Design of Bio-degradable Micro-patterned Structures. *Computer-Aided Design and Applications*, **2009**, 6, 661-671	1.4	13
183	High Throughput Production and Screening Strategies for Creating Advanced Biomaterials and Chemical Sensors **2009**, 393-417		
182	Behavior of Acrylodan-Labeled Human Serum Albumin Dissolved in Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2008**, 47, 560-569	3.9	23
181	The local microenvironment surrounding dansyl molecules attached to controlled pore glass in pure and alcohol-modified supercritical carbon dioxide. *Langmuir*, **2008**, 24, 6616-23	4	7
180	Guest aggregation within poly(L-lactic acid)/pluronic P104 thin films. *Applied Spectroscopy*, **2008**, 62, 290-4	3.1	3
179	Photophysics of 9,10-anthracenediol and a bifunctional sacrificial template in solution and xerogels. *Applied Spectroscopy*, **2008**, 62, 345-52	3.1	5
178	A xerogel-sequestered selenoxide catalyst for brominations with hydrogen peroxide and sodium bromide in an aqueous environment. *Journal of Organic Chemistry*, **2008**, 73, 6849-52	4.2	49
177	Entrainer effect on photochirogenesis in near- and supercritical carbon dioxide: dramatic enhancement of enantioselectivity. *Journal of the American Chemical Society*, **2008**, 130, 7526-7	16.4	26
176	Surface-phase separation of PEO-containing biodegradable PLLA blends and block copolymers. *Applied Surface Science*, **2008**, 255, 2360-2364	6.7	16
175	Comparison of dansylated aminopropyl controlled pore glass solvated by molecular and ionic liquids. *Langmuir*, **2007**, 23, 843-9	4	23
174	Tailored quartz pins for high-density microsensor array fabrication. *Analytical Chemistry*, **2007**, 79, 5429-34	6.8	10
173	Molecularly imprinted xerogels as platforms for sensing. *Accounts of Chemical Research*, **2007**, 40, 756-67	24.3	80
172	Noninvasive probing of aqueous Triton X-100 with steady-state and frequency-domain fluorometry. *Chemical Physics Letters*, **2007**, 450, 156-163	2.5	5
171	Molecularly templated materials in chemical sensing. *Analytica Chimica Acta*, **2007**, 594, 147-61	6.6	164
170	Sol hydrolysis and condensation reaction time influence the sensitivity of class II xerogel-based sensing materials. *Journal of Sol-Gel Science and Technology*, **2007**, 42, 127-133	2.3	4
169	Fluorescence resonance energy transfer analysis of recombination signal sequence configuration in the RAG1/2 synaptic complex. *Molecular and Cellular Biology*, **2007**, 27, 4745-58	4.8	15
168	Nanostructured porous polymeric photonic bandgap structures for sensing **2007**,		1

167	On the behavior of indole-containing species sequestered within reverse micelles at sub-zero temperatures. *Applied Spectroscopy*, **2007**, 61, 537-47	3.1	
166	CMOS-Based Phase Fluorometric Oxygen Sensor System. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2007**, 54, 111-118		39
165	Comment on "How polar are ionic liquids? Determination of the static dielectric constant of an imidazolium-based ionic liquid by microwave dielectric spectroscopy". *Journal of Physical Chemistry B*, **2006**, 110, 5822-3; discussion 5824	3.4	33
164	Tailored xerogel-based sensor arrays and artificial neural networks yield improved O2 detection accuracy and precision. *Analyst, The*, **2006**, 131, 1129-36	5	18
163	Site selectively templated and tagged xerogels for chemical sensors. *Analytical Chemistry*, **2006**, 78, 3165-70	7.8	34
162	Stable sensors with tunable sensitivities based on class II xerogels. *Analytical Chemistry*, **2006**, 78, 1939-45	7.8	36
161	O(2)-responsive chemical sensors based on hybrid xerogels that contain fluorinated precursors. *Applied Spectroscopy*, **2006**, 60, 951-7	3.1	16
160	Fluorescence Lifetime Measurements, Applications of **2006**,		1
159	A cationic chalcogenoxanthylium photosensitizer effective in vitro in chemosensitive and multidrug-resistant cells. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 8635-43	3.4	20
158	Templated xerogels as platforms for biomolecule-less biomolecule sensors. *Analytica Chimica Acta*, **2006**, 564, 59-65	6.6	54
157	Temperature-dependent tail-tail dynamics of pyrene-labeled poly(dimethylsiloxane) oligomers dissolved in ethyl acetate. *Journal of Physical Chemistry B*, **2005**, 109, 14824-9	3.4	15
156	Radioluminescent light source for the development of optical sensor arrays. *Analytical Chemistry*, **2005**, 77, 718-23	7.8	13
155	Behavior of Pyrene End-Labeled Poly(dimethylsiloxane) Polymer Tails in Mixtures of 1-Butyl-3-methylimidazolium Bis(trifluoromethyl)sulfonylimide and Toluene. *Macromolecules*, **2005**, 38, 8574-8582	5.5	22
154	High-performance quenchometric oxygen sensors based on fluorinated xerogels doped with [Ru(dpp)3]2+. *Analytical Chemistry*, **2005**, 77, 2670-2	7.8	113
153	Effects of Fluid Density on a Poly(dimethylsiloxane)-Based Junction in Pure and Methanol-Modified Carbon Dioxide. *Macromolecules*, **2005**, 38, 1341-1348	5.5	7
152	An analytical view of ionic liquids. *Analyst, The*, **2005**, 130, 800-8	5	370
151	Hybrid xerogel films as novel coatings for antifouling and fouling release. *Biofouling*, **2005**, 21, 59-71	3.3	81
150	Effects of Added CO2 on the Dynamics of Poly(dimethylsiloxane) Oligomers Dissolved in a ? Solvent and a Poor Solvent. *Journal of Physical Chemistry B*, **2004**, 108, 18520-18529	3.4	9

149	Dansylated aminopropyl controlled pore glass: a model for silica-liquid solvation. *Langmuir*, **2004**, 20, 10507-16	4	18
148	Effects of Subzero Temperatures on Fluorescent Probes Sequestered within Aerosol-OT Reverse Micelles. *Langmuir*, **2004**, 20, 1551-1557	4	30
147	Minimizing urine autofluorescence under multi-photon excitation conditions. *Applied Spectroscopy*, **2004**, 58, 1101-5	3.1	6
146	Keratinocyte growth factor and autocrine repair in airway epithelium. *JAMA Otolaryngology*, **2004**, 130, 446-9		9
145	RAG1-DNA binding in V(D)J recombination. Specificity and DNA-induced conformational changes revealed by fluorescence and CD spectroscopy. *Journal of Biological Chemistry*, **2003**, 278, 5584-96	5.4	27
144	Analysis of the initial burst of drug release coupled with polymer surface degradation. *Pharmaceutical Research*, **2003**, 20, 149-52	4.5	20
143	Tailored delivery of active keratinocyte growth factor from biodegradable polymer formulations. *Journal of Biomedical Materials Research Part B*, **2003**, 66, 417-24		13
142	Time-resolved fluorescence spectroscopy for illuminating complex systems. *Analytica Chimica Acta*, **2003**, 500, 71-104	6.6	45
141	Interleukin-1 facilitates airway epithelial migration in response to injury. *Laryngoscope*, **2003**, 113, 243-7	3.6	1
140	Sol-gel-derived sensor materials that yield linear calibration plots, high sensitivity, and long-term stability. *Analytical Chemistry*, **2003**, 75, 2407-13	7.8	157
139	Effects of Solubilized Water on the Relaxation Dynamics Surrounding 6-Propionyl-2-(N,N-dimethylamino)naphthalene Dissolved in 1-Butyl-3-methylimidazolium Hexafluorophosphate at 298 K. *Industrial & Engineering Chemistry Research*, **2003**, 42, 6457-6463	3.9	93
138	Dendrimeric organochalcogen catalysts for the activation of hydrogen peroxide: origins of the "dendrimer effect" with catalysts terminating in phenylseleno groups. *Journal of the American Chemical Society*, **2003**, 125, 12558-66	16.4	58
137	A new strategy for folding oligo(m-phenylene ethynylenes). *Chemical Communications*, **2003**, 56-7	5.8	47
136	Integrated chemical sensor array platform based on a light emitting diode, xerogel-derived sensor elements, and high-speed pin printing. *Analytica Chimica Acta*, **2002**, 470, 101-110	6.6	25
135	The Photophysics of 6-(1-Pyrenyl)hexyl-11(1-pyrenyl)undecanoate Dissolved in Organic Liquids and Supercritical Carbon Dioxide: Impact on Olefin Metathesis. *Journal of Physical Chemistry B*, **2002**, 106, 1820-1832	3.4	26
134	Pin-printed chemical sensor arrays for simultaneous multianalyte quantification. *Analytical Chemistry*, **2002**, 74, 1462-6	7.8	54
133	Multianalyte pin-printed biosensor arrays based on protein-doped xerogels. *Analytical Chemistry*, **2002**, 74, 6177-84	7.8	59
132	Assessment of One- and Two-Photon Excited Luminescence for Directly Measuring O2, pH, Na+, Mg2+, or Ca2+ in Optically Dense and Biologically Relevant Samples. *Applied Spectroscopy*, **2002**, 56, 455-463	3.1	13

131	Tools to Rapidly Produce and Screen Biodegradable Polymer and Sol-Gel-Derived Xerogel Formulations. *Applied Spectroscopy*, **2002**, 56, 1385-1389	3.1	42
130	Two-Photon-Excited Phase-Resolved Fluorescence Spectroscopy. *Applied Spectroscopy*, **2002**, 56, 1588-1592	3.1	3
129	Temperature-dependent microscopic solvent properties of "dry" and "wet" 1-butyl-3-methylimidazolium hexafluorophosphate: correlation with ET(30) and Kamlet–Taft polarity scales. *Green Chemistry*, **2002**, 4, 165-169	10	204
128	Dendrimers Functionalized with a Single Pyrene Label: Synthesis, Photophysics, and Fluorescence Quenching. *Journal of Physical Chemistry B*, **2002**, 106, 8649-8656	3.4	39
127	Water-soluble, core-modified porphyrins as novel, longer-wavelength-absorbing sensitizers for photodynamic therapy. II. Effects of core heteroatoms and meso-substituents on biological activity. *Journal of Medicinal Chemistry*, **2002**, 45, 449-61	8.3	81
126	Quantifying Critical Micelle Concentration and Nonidealities within Binary Mixed Micellar Systems: An Upper-Level Undergraduate Laboratory. *The Chemical Educator*, **2001**, 6, 223-226		15
125	Effects of fluorescent probe structure on the dynamics at cysteine-34 within bovine serum albumin: evidence for probe-dependent modulation of the cybotactic region. *Biopolymers*, **2001**, 59, 502-11	2.2	10
124	The Cybotactic Region Surrounding Fluorescent Probes Dissolved in 1-Butyl-3-methylimidazolium Hexafluorophosphate: Effects of Temperature and Added Carbon Dioxide. *Journal of Physical Chemistry B*, **2001**, 105, 9663-9668	3.4	197
123	Three-Arm Poly(dimethylsiloxane) Junction Bearing a Single Pendant Dansyl Group: A Model Architecture for Polymer Junction Points Dissolved in Liquids and Molten Polymers. *Macromolecules*, **2001**, 34, 4624-4629	5.5	10
122	Dendrimeric organochalcogen catalysts for the activation of hydrogen peroxide: improved catalytic activity through statistical effects and cooperativity in successive generations. *Journal of the American Chemical Society*, **2001**, 123, 57-67	16.4	103
121	Optical sensor array and integrated light source. *Analytical Chemistry*, **2001**, 73, 3289-93	7.8	63
120	Effects of Density on the Intramolecular Hydrogen Bonding, Tail–Tail Cyclization, and Mean-Free Tail-to-Tail Distances of Pyrene End-Labeled Poly(dimethylsiloxane) Oligomers Dissolved in Supercritical CO2. *Macromolecules*, **2001**, 34, 6831-6838	5.5	17
119	The influence of phenylethynyl linkers on the photo-physical properties of metal-free porphyrins. *Journal of Porphyrins and Phthalocyanines*, **2000**, 04, 669-683	1.8	22
118	On the Origin of the Heterogeneous Emission from Pyrene Sequestered Within Tetramethylorthosilicate-Based Xerogels: A Decay-Associated Spectra and O2 Quenching Study. *Journal of Sol-Gel Science and Technology*, **2000**, 17, 83-90	2.3	18
117	Effects of Processing Temperature on the Oxygen Quenching Behavior of Tris(4,7?-diphenyl-1,10?-phenanthroline) Ruthenium (II) Sequestered Within Sol-Gel-Derived Xerogel Films. *Journal of Sol-Gel Science and Technology*, **2000**, 17, 71-82	2.3	36
116	Dendrimers Functionalized with a Single Fluorescent Dansyl Group Attached "Off Center": Synthesis and Photophysical Studies. *Journal of the American Chemical Society*, **2000**, 122, 6139-6144	16.4	69
115	Effects of ethanol volume percent on fluorescein-labeled spinach apo- and holocalmodulin. *Analytical Chemistry*, **2000**, 72, 227-33	7.8	7
114	Performance of Cholesterol Oxidase Sequestered within Reverse Micelles Formed in Supercritical Carbon Dioxide. *Langmuir*, **2000**, 16, 4901-4905	4	51

113	Probing the Origins of Spectroscopic Responses to Analyte-Induced Conformational Changes in Fluorescently-Labeled Cod III Parvalbumin. *Journal of Physical Chemistry B*, **2000**, 104, 10100-10110	3.4	15
112	O2Quenching of Ruthenium(II) Tris(2,2Ebypyridyl)2+within the Water Pool of Perfluoropolyether-Based Reverse Micelles Formed in Supercritical Carbon Dioxide. *Langmuir*, **2000**, 16, 5593-5599	4	25
111	Extending the reach of immunoassays to optically dense specimens by using two-photon excited fluorescence polarization. *Analytical Chemistry*, **2000**, 72, 5748-52	7.8	38
110	Effects of Added CO2 on the Conformation of Pyrene End-Labeled Poly(dimethylsiloxane) Dissolved in Liquid Toluene. *Journal of Physical Chemistry B*, **2000**, 104, 8585-8591	3.4	24
109	On the Microenvironments Surrounding Dansyl Sequestered within Class I and II Xerogels. *Chemistry of Materials*, **2000**, 12, 3547-3551	9.6	32
108	Linkage and redox isomerism in ruthenium complexes of catecholate, semiquinone, and o-acylphenolate ligands derived from 1,2-dihydroxy-9,10-anthracenedione (alizarin) and related species: syntheses, characterizations, and photophysics. *Inorganic Chemistry*, **2000**, 39, 5807-16	5.1	37
107	Affinity and Mobility of Polyclonal Anti-Dansyl Antibodies Sequestered within Sol□Gel-Derived Biogels. *Chemistry of Materials*, **2000**, 12, 1142-1147	9.6	56
106	Static and time-resolved fluorescence of fluorescein-labeled dextran dissolved in aqueous solution or sequestered within a sol□gel-derived hydrogel. *Analyst, The*, **1999**, 124, 373-379	5	26
105	Evidence for Chain Length Dependent Local Ordering Surrounding Perylene Dissolved in Poly(ethylene glycol). *Macromolecules*, **1999**, 32, 8084-8088	5.5	4
104	Kinetics and thermodynamics of free flavins and the flavin-based redox active site within glucose oxidase dissolved in solution or sequestered within a sol-gel-derived glass. *Analytical Chemistry*, **1999**, 71, 1215-24	7.8	55
103	Dendrimeric Catalysts for the Activation of Hydrogen Peroxide. Increasing Activity per Catalytic Phenylseleno Group in Successive Generations. *Organic Letters*, **1999**, 1, 1043-1046	6.2	38
102	On the Weak Intrinsic Luminescence from Paclitaxel Dissolved in Nonelectrolyte Solvents. *Applied Spectroscopy*, **1999**, 53, 991-999	3.1	2
101	DNA-induced conformational changes in bacteriophage 434 repressor. *Journal of Molecular Biology*, **1999**, 294, 859-73	6.5	23
100	Effects of Poly(ethylene glycol) Doping on the Behavior of Pyrene, Rhodamine 6G, and Acrylodan-Labeled Bovine Serum Albumin Sequestered within Tetramethylorthosilane-Derived Sol-Gel-Processed Composites. *Journal of Sol-Gel Science and Technology*, **1998**, 11, 43-54	2.3	61
99	Toward Sol-Gel-Processed Chemical Sensing Platforms: Effects of Dopant Addition Time on Sensor Performance. *Journal of Sol-Gel Science and Technology*, **1998**, 11, 169-176	2.3	8
98	A parallel multiharmonic frequency-domain fluorometer for measuring excited-state decay kinetics following one-, two-, or three-photon excitation. *Analytical Chemistry*, **1998**, 70, 3384-96	7.8	28
97	Production, Characterization, and Utilization of Aerosol-Deposited Sol□Gel-Derived Films. *Chemistry of Materials*, **1998**, 10, 1041-1051	9.6	25
96	Effects of CO2 Sorption on the Rotational Reorientation Dynamics of a Model Solute Dissolved in Molten Poly(dimethylsiloxane). *Macromolecules*, **1998**, 31, 77-85	5.5	13

95	The pH within PFPE Reverse Micelles Formed in Supercritical CO2. *Journal of Physical Chemistry B*, **1998**, 102, 1474-1478	3.4	88
94	Effects of Water Loading on the Fluorescein/Anti-Fluorescein Antibody System in Aerosol-OT Reverse Micelles Formed in n-Heptane. *Applied Spectroscopy*, **1998**, 52, 96-100	3.1	2
93	Portable, Low-Cost, Solid-State Luminescence-Based O2 Sensor. *Applied Spectroscopy*, **1998**, 52, 750-754	3.1	58
92	Tracking Nanosecond and Subnanosecond Protein Dynamics On-the-Fly Using Frequency-Domain Fluorescence. *Applied Spectroscopy*, **1998**, 52, 933-942	3.1	6
91	Effects of Fluorescent Reporter Group Structure on the Dynamics Surrounding Cysteine-26 in Spinach Calmodulin: A Model Biorecognition Element. *Applied Spectroscopy*, **1998**, 52, 1447-1456	3.1	8
90	Unfolding of acrylodan-labeled human serum albumin probed by steady-state and time-resolved fluorescence methods. *Biophysical Journal*, **1998**, 75, 1084-96	2.9	164
89	Nanosecond and Sub-Nanosecond Time-Resolved Fluorescence Spectroscopy at Interfaces. *Applied Spectroscopy Reviews*, **1997**, 32, 1-43	4.5	9
88	Peer Reviewed: Using Fluorescence to Probe Biosensor Interfacial Dynamics. *Analytical Chemistry*, **1997**, 69, 403A-408A	7.8	18
87	Water Core within Perfluoropolyether-Based Microemulsions Formed in Supercritical Carbon Dioxide. *Journal of Physical Chemistry B*, **1997**, 101, 6707-6714	3.4	92
86	6-Propionyl-2-(N,N-dimethylamino)naphthalene (PRODAN) Revisited. *Applied Spectroscopy*, **1997**, 51, 1316-1322	3.1	25
85	Probing the Scale of Local Density Augmentation in Supercritical Fluids: A Picosecond Rotational Reorientation Study. *The Journal of Physical Chemistry*, **1996**, 100, 6889-6897		60
84	Characterization of a New Solvent-Sensitive Two-Photon-Induced Fluorescent (Aminostyryl)pyridinium Salt Dye. *The Journal of Physical Chemistry*, **1996**, 100, 4521-4525		104
83	Biosensor for the nonspecific determination of ionic surfactants. *Analytical Chemistry*, **1996**, 68, 3377-81	7.8	34
82	Development of Chemical Sensing Platforms Based on Sol□el-Derived Thin Films: Origin of Film Age vs Performance Trade-Offs. *Analytical Chemistry*, **1996**, 68, 604-610	7.8	61
81	Conformational Flexibility of 1,3-Bis(1-pyrenyl)propane Throughout the Sol□el to Xerogel Process. *Chemistry of Materials*, **1996**, 8, 1410-1414	9.6	18
80	Rotational Reorientation Dynamics of Aerosol-OT Reverse Micelles Formed in Nearcritical Propane. *Applied Spectroscopy*, **1996**, 50, 732-739	3.1	9
79	Steady-State Fluorescence of Polystyrene Plasticized by Supercritical Carbon Dioxide. *Applied Spectroscopy*, **1996**, 50, 740-746	3.1	5
78	Effects of Surfactants on the Dynamical Behavior of Acrylodan-Labeled Bovine Serum Albumin. *The Journal of Physical Chemistry*, **1996**, 100, 8580-8586		12

77	Accessibility of the fluorescent reporter group in native, silica-adsorbed, and covalently attached acrylodan-labeled serum albumins. *Analytical Chemistry*, **1996**, 68, 3194-8	7.8	19
76	Specific Intermolecular Interaction of Carbon Dioxide with Polymers. *Journal of the American Chemical Society*, **1996**, 118, 1729-1736	16.4	700
75	Aerosol-generated sol-gel-derived thin films as biosensing platforms. *Analytica Chimica Acta*, **1996**, 332, 83-91	6.6	67
74	The binding of free oligopeptides to cyclodextrins: The role of the tyrosine group. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **1996**, 26, 185-195		24
73	Solute□Fluid Coupling and Energy Dissipation in Supercritical Fluids: 9-Cyanoanthracene in C2H6, CO2, and CF3H. *The Journal of Physical Chemistry*, **1996**, 100, 8499-8507		12
72	Dynamics of acrylodan-labeled bovine and human serum albumin entrapped in a sol-gel-derived biogel. *Analytical Chemistry*, **1995**, 67, 2436-43	7.8	101
71	State-Dependent Solvation of Pyrene in Supercritical CO2. *Journal of the American Chemical Society*, **1995**, 117, 5832-5839	16.4	48
70	Dynamics of acrylodan-labeled bovine and human serum albumin sequestered within aerosol-OT reverse micelles. *Analytical Chemistry*, **1995**, 67, 3775-81	7.8	95
69	Removal of ribonucleases from solution using an inhibitor-based sol-gel-derived Biogel. *Analytical Chemistry*, **1995**, 67, 1935-1939	7.8	23
68	Modern Molecular Fluorescence Spectroscopy. *Applied Spectroscopy*, **1995**, 49, 14A-19A	3.1	40
67	Rotational Reorientation Dynamics of Xanthene Dyes within the Interior of Aerosol-OT Reversed Micelles. *Applied Spectroscopy*, **1995**, 49, 20-30	3.1	30
66	Application of a Poly(Hexafluoropropyl-Co-Tetrafluoroethylene) Thin-Film Architecture for Aqueous O2 Quantification. *Applied Spectroscopy*, **1995**, 49, 1809-1814	3.1	3
65	Dynamics surrounding Cys-34 in native, chemically denatured, and silica-adsorbed bovine serum albumin. *Analytical Chemistry*, **1995**, 67, 149-59	7.8	71
64	Effects of aging on the dynamics of rhodamine 6G in tetramethyl orthosilicate-derived sol-gels. *The Journal of Physical Chemistry*, **1994**, 98, 17-22		123
63	Comparison of inter- and intramolecular cyclodextrin complexes. *Supramolecular Chemistry*, **1994**, 3, 93-99	1.8	23
62	Glucose Biosensor Based on a Sol-Gel-Derived Platform. *Analytical Chemistry*, **1994**, 66, 3139-3144	7.8	232
61	Characterization of Plasma-Modified Fluoropolymer Surfaces Using Steady-State and Time-Resolved Fluorescence Spectroscopy. *Applied Spectroscopy*, **1994**, 48, 630-637	3.1	4
60	Evidence for changes in the conformation of flexible solutes dissolved in supercritical solvents. *Analyst, The*, **1994**, 119, 505	5	7

59	Phase-Resolved Evanescent Wave Induced Fluorescence. An in situ Tool for Studying Heterogeneous Interfaces. *Analytical Chemistry*, **1994**, 66, 2433-2440	7.8	21
58	A Novel Protocol to Entrap Active Urease in a Tetraethoxysilane-Derived Sol-Gel Thin-Film Architecture. *Chemistry of Materials*, **1994**, 6, 1596-1598	9.6	67
57	Probing the Cybotactic Region of PRODAN in Tetramethylorthosilicate-Derived Sol-Gels. *The Journal of Physical Chemistry*, **1994**, 98, 8101-8107		67
56	Probing the Dynamics of Surface-Immobilized Bioreceptors Using Picosecond Time-Resolved Spectroscopy. *ImmunoMethods*, **1993**, 3, 104-111		7
55	Probing solute-entrainer interactions in matrix-modified supercritical carbon dioxide. *Journal of the American Chemical Society*, **1993**, 115, 701-707	16.4	33
54	Affinity of antifluorescein antibodies encapsulated within a transparent sol-gel glass. *Analytical Chemistry*, **1993**, 65, 2671-2675	7.8	163
53	Characterization of Rhodamine 6G-Doped Thin Sol-Gel Films. *Applied Spectroscopy*, **1993**, 47, 229-234	3.1	56
52	Detailed Investigation of 2-(p-Toluidinyl)naphthalene-6-Sulfonate (TNS) Binding to Bovine Serum Albumin (BSA) by Steady-State and Time-Resolved Fluorescence Spectroscopy. *Applied Spectroscopy*, **1993**, 47, 792-799	3.1	12
51	Comparison between Covalent Attachment and Physisorption of 2-(p-Toluidinyl)naphthalene-6-Sulfonate (TNS) to Proteins. *Applied Spectroscopy*, **1993**, 47, 800-806	3.1	3
50	Probing Biosensor Interfaces by Multifrequency Phase and Modulation Total Internal Reflection Fluorescence (MPM-TIRF). *Applied Spectroscopy*, **1993**, 47, 1152-1160	3.1	9
49	Chemical Sensor Based on an Artificial Receptor Element Trapped in a Porous Sol-Gel Glass Matrix. *Applied Spectroscopy*, **1993**, 47, 1700-1703	3.1	27
48	Steady-state and time-resolved fluorescence investigations of pyrene excimer formation in supercritical CO2. *Journal of the American Chemical Society*, **1992**, 114, 5249-5257	16.4	73
47	Investigation of Pyrene Excimer Formation in Supercritical CO2. *ACS Symposium Series*, **1992**, 73-83	0.4	2
46	Fundamental Studies and Applications of Supercritical Fluids. *ACS Symposium Series*, **1992**, 1-15	0.4	5
45	Investigation of β-Cyclodextrin Immobilized at Silica Surfaces by Fluorescence Spectroscopy. *Applied Spectroscopy*, **1992**, 46, 169-175	3.1	5
44	Microheterogeneity of Sodium Dodecylsulfate Micelles Probed by Frequency-Domain Fluorometry. *Applied Spectroscopy*, **1992**, 46, 329-339	3.1	16
43	Fluorescence-Based Investigations of Alcohol Co-Solvents on the Nature of Cyclodextrin Inclusion Complexation. *Applied Spectroscopy*, **1992**, 46, 606-614	3.1	13
42	Investigations of Solute-Cosolvent Interactions in Supercritical Fluid Media. *ACS Symposium Series*, **1992**, 92-105	0.4	

41	Elucidation of Solute□Fluid Interactions in Supercritical CF3H by Steady-State and Time-Resolved Fluorescence Spectroscopy. *ACS Symposium Series*, **1992**, 48-59	0.4	1
40	Investigation of solute-fluid interactions in supercritical CF3H: A multifrequency phase and modulation fluorescence study. *Journal of Supercritical Fluids*, **1992**, 5, 48-54	4.2	22
39	In situ studies of protein conformation in supercritical fluids: trypsin in carbon dioxide. *Biotechnology Progress*, **1992**, 8, 421-3	2.8	39
38	Enhanced performance of fibre-optic immunoprobes using refunctionalized fluoropolymers as the substratum. *Analytica Chimica Acta*, **1992**, 262, 323-330	6.6	18
37	Fiber-optic-based immunosensors for haptens. *Analytica Chimica Acta*, **1991**, 246, 55-63	6.6	22
36	Continuous lifetime distributions of □cyclodextrin-anilinonaphthalene sulfonic acid inclusion complexes. *Journal of Fluorescence*, **1991**, 1, 31-9	2.4	10
35	Silanization of radio frequency glow discharge modified expanded poly(tetrafluoroethylene) using (aminopropyl)triethoxysilane. *Langmuir*, **1991**, 7, 142-151	4	58
34	Determination of the transduction mechanism for optical sensors based on Rhodamine 6G-impregnated perfluorosulfonate films using steady-state and frequency-domain fluorescence. *Analytical Chemistry*, **1991**, 63, 797-802	7.8	27
33	Nanosecond reorganization of water within the interior of reversed micelles revealed by frequency-domain fluorescence spectroscopy. *The Journal of Physical Chemistry*, **1991**, 95, 7900-7907		100
32	Unimodal Lorentzian lifetime distributions for the 2-anilinonaphthalene-6-sulfonate-.beta.-cyclodextrin inclusion complex recovered by multifrequency phase-modulation fluorometry. *The Journal of Physical Chemistry*, **1990**, 94, 8457-8463		34
31	Simple fiber-optic sensor based on immobilized □cyclodextrin. *Analytica Chimica Acta*, **1990**, 237, 485-490	6.6	19
30	Advances in Multifrequency Phase and Modulation Fluorescence Analysis. *Critical Reviews in Analytical Chemistry*, **1990**, 21, 389-405	5.2	51
29	Effects of inaccurate reference lifetimes on interpreting frequency-domain fluorescence data. *Analytical Chemistry*, **1990**, 62, 471-6	7.8	11
28	Regenerable fiber-optic-based immunosensor. *Analytical Chemistry*, **1990**, 62, 1065-9	7.8	102
27	Evidence for lifetime distributions in cyclodextrin inclusion complexes. *Journal of the American Chemical Society*, **1990**, 112, 1343-1346	16.4	69
26	Correction for Excitation Beam Heterogeneities in Multifrequency Phase and Modulation Fluorescence. *Applied Spectroscopy*, **1990**, 44, 1089-1092	3.1	2
25	Instrumentation for Steady-State and Dynamic Fluorescence and Absorbance Studies in Supercritical Media. *Applied Spectroscopy*, **1990**, 44, 1196-1202	3.1	31
24	Reversible Excited-State Transient Solvation in Binary Supercritical Fluids Revealed by Multifrequency Phase and Modulation Fluorescence. *Applied Spectroscopy*, **1990**, 44, 1203-1209	3.1	24

23	A New Fluorescence Sensor for Quantification of Atmospheric Humidity. *Journal of the Electrochemical Society*, **1989**, 136, 567-570	3.9	31
22	Thermodynamic study on the effects of beta-cyclodextrin inclusion with anilinonaphthalenesulfonates. *Analytical Chemistry*, **1989**, 61, 905-9	7.8	300
21	Multicomponent fluorometric analysis using a fiber-optic probe. *Analytical Chemistry*, **1989**, 61, 1510-3	7.8	12
20	Multidimensional Fluorescence with a Simple Fiber-Optic-Based Probe. *ACS Symposium Series*, **1989**, 380-395	[illegible]	1
19	A New Dual-Channel Frequency-Domain Fluorometer for the Determination of Picosecond Rotational Correlation Times. *Applied Spectroscopy*, **1988**, 42, 272-277	3.1	4
18	Fluorescence Anisotropy Selective Technique (FAST): A New Approach to Multicomponent Fluorimetric Analysis. *Applied Spectroscopy*, **1988**, 42, 1245-1250	3.1	5
17	A New Fiber-Optic-Based Multifrequency Phase-Modulation Fluorometer. *Applied Spectroscopy*, **1988**, 42, 1531-1537	3.1	22
16	Bioanalytical applications of fluorescence spectroscopy. *Analytical Chemistry*, **1988**, 60, 1031A-1039A	7.8	33
15	Remote Sensing With A Multifrequency Phase-Modulation Fluorometer **1988**,		4
14	A new frequency-domain fluorometer for the rapid determination of picosecond rotational-correlation times. *Journal of Applied Physics*, **1987**, 61, 8-11	2.5	9
13	Phase-Resolved Fluorescence in Chemical Analysis. *CRC Critical Reviews in Analytical Chemistry*, **1987**, 18, 245-298		4
12	Rapid-scanning frequency-domain fluorometer with picosecond time resolution. *Applied Optics*, **1987**, 26, 3526-9	1.7	8
11	Phase-Resolved Fluorescence in Chemical Analysis. *Critical Reviews in Analytical Chemistry*, **1987**, 18, 245-298	[illegible]	15
10	Determination of Subnanosecond Fluorescence Lifetimes with a UHF Television Tuner and a cw or Mode-Locked Laser. *Applied Spectroscopy*, **1986**, 40, 683-687	3.1	10
9	A SELECTIVE SYNTHESIS OF 5-p-AMINOPHENYLBARBITURIC ACID. *Organic Preparations and Procedures International*, **1986**, 18, 209-212	1.1	3
8	Rapid frequency-scanned fiber-optic fluorometer capable of subnanosecond lifetime determinations. *Analytical Chemistry*, **1986**, 58, 3139-3144	7.8	19
7	Four-component determinations using phase-resolved fluorescence spectroscopy. *Analytical Chemistry*, **1985**, 57, 55-59	7.8	15
6	Thermodynamic binding parameters evaluated by using phase-resolved fluorescence spectrometry. *Analytica Chimica Acta*, **1985**, 175, 189-201	6.6	42

5	Simultaneous two-component determinations by phase-resolved fluorescence spectrometry. *Analytica Chimica Acta*, **1985**, 169, 117-123	6.6	16
4	Homogeneous immunoassay of phenobarbital by phase-resolved fluorescence spectroscopy. *Talanta*, **1985**, 32, 15-8	6.2	24
3	Elimination of bilirubin interference in fluorimetric determination of fluorescein by phase-resolved fluorescence spectrometry. *Analytica Chimica Acta*, **1984**, 162, 275-283	6.6	8
2	Phase-resolved fluorescence spectroscopy. *Analytical Chemistry*, **1984**, 56, 1400A-1417A	7.8	35
1	Comparison of phase-resolved and steady-state fluorometric multicomponent determinations using wavelength selection. *Analytical Chemistry*, **1984**, 56, 2195-2199	7.8	13