

Vinod Subramaniam

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

232 papers	10,090 citations	56 h-index	89 g-index
261 ext. papers	11,085 ext. citations	5.2 avg, IF	6.01 L-index

#	Paper	IF	Citations
232	Intracellular Protein-Lipid Interactions Studied by Rapid-Scan Electron Paramagnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2471-2475	6.4	3
231	Quantitative Determination of Dark Chromophore Population Explains the Apparent Low Quantum Yield of Red Fluorescent Proteins. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1383-1391	3.4	8
230	Lipid-Conjugated Rigidochromic Probe Discloses Membrane Alteration in Model Cells of Krabbe Disease. <i>Biophysical Journal</i> , 2019 , 116, 477-486	2.9	1
229	Orthogonal supramolecular protein assembly on patterned bifunctional surfaces. <i>Chemical Communications</i> , 2018 , 54, 1615-1618	5.8	3
228	Spermine induced reversible collapse of deoxyribonucleic acid-bridged nanoparticle-based assemblies. <i>Nano Research</i> , 2018 , 11, 383-396	10	5
227	Exogenous β -Synuclein hinders synaptic communication in cultured cortical primary rat neurons. <i>PLoS ONE</i> , 2018 , 13, e0193763	3.7	17
226	Polymorph-specific distribution of binding sites determines thioflavin-T fluorescence intensity in β -Synuclein fibrils. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2018 , 25, 189-196	2.7	28
225	Hydrophobic-Interaction-Induced Stiffening of β -Synuclein Fibril Networks. <i>Physical Review Letters</i> , 2018 , 120, 208102	7.4	10
224	Distinct Mechanisms Determine β -Synuclein Fibril Morphology during Growth and Maturation. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 538-547	5.7	31
223	Evidence for Intramolecular Antiparallel Beta-Sheet Structure in Alpha-Synuclein Fibrils from a Combination of Two-Dimensional Infrared Spectroscopy and Atomic Force Microscopy. <i>Scientific Reports</i> , 2017 , 7, 41051	4.9	82
222	Direct Visualization of Model Membrane Remodeling by β -Synuclein Fibrillization. <i>ChemPhysChem</i> , 2017 , 18, 1620-1626	3.2	13
221	Alpha-Synuclein Disease Mutations Are Structurally Defective and Locally Affect Membrane Binding. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4254-4257	16.4	21
220	Solubilization of lipids and lipid phases by the styrene-maleic acid copolymer. <i>European Biophysics Journal</i> , 2017 , 46, 91-101	1.9	57
219	C-Terminal Truncated β -Synuclein Fibrils Contain Strongly Twisted β -Sheets. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15392-15400	16.4	57
218	2.19 Biophysical Analysis of Amyloid Formation 2017 , 438-451		1
217	Controlling Protein Surface Orientation by Strategic Placement of Oligo-Histidine Tags. <i>ACS Nano</i> , 2017 , 11, 9068-9083	16.7	31
216	Non-uniform self-assembly: On the anisotropic architecture of β -Synuclein supra-fibrillar aggregates. <i>Scientific Reports</i> , 2017 , 7, 7699	4.9	2

215	Membrane Binding of Parkinson's Protein α -Synuclein: Effect of Phosphorylation at Positions 87 and 129 by the S to D Mutation Approach. <i>Israel Journal of Chemistry</i> , 2017 , 57, 762-770	3.4	5
214	Room-temperature in-cell EPR spectroscopy: α -Synuclein disease variants remain intrinsically disordered in the cell. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 18147-18151	3.6	19
213	Intracellular Manipulation of Phagosomal Transport and Maturation Using Magnetic Tweezers. <i>Methods in Molecular Biology</i> , 2017 , 1519, 93-112	1.4	2
212	Fluorescence Methods for Unraveling Oligomeric Amyloid Intermediates. <i>Methods in Molecular Biology</i> , 2016 , 1345, 151-69	1.4	4
211	Size-selective analyte detection with a Young interferometer sensor using multiple wavelengths. <i>Optics Express</i> , 2016 , 24, 8594-619	3.3	2
210	Functionally different α -Synuclein inclusions yield insight into Parkinson's disease pathology. <i>Scientific Reports</i> , 2016 , 6, 23116	4.9	26
209	Chip based common-path optical coherence tomography system with an on-chip microlens and multi-reference suppression algorithm. <i>Optics Express</i> , 2016 , 24, 12635-50	3.3	8
208	Conformational Compatibility Is Essential for Heterologous Aggregation of α -Synuclein. <i>ACS Chemical Neuroscience</i> , 2016 , 7, 719-27	5.7	19
207	Direct Observation of α -Synuclein Amyloid Aggregates in Endocytic Vesicles of Neuroblastoma Cells. <i>PLoS ONE</i> , 2016 , 11, e0153020	3.7	26
206	p53 Specifically Binds Triplex DNA In Vitro and in Cells. <i>PLoS ONE</i> , 2016 , 11, e0167439	3.7	13
205	α -Synuclein Oligomers Stabilize Pre-Existing Defects in Supported Bilayers and Propagate Membrane Damage in a Fractal-Like Pattern. <i>Langmuir</i> , 2016 , 32, 11827-11836	4	19
204	Membrane-Bound α -Synuclein Clusters Induce Impaired Lipid Diffusion and Increased Lipid Packing. <i>Biophysical Journal</i> , 2016 , 111, 2440-2449	2.9	15
203	The Impact of N-terminal Acetylation of α -Synuclein on Phospholipid Membrane Binding and Fibril Structure. <i>Journal of Biological Chemistry</i> , 2016 , 291, 21110-21122	5.4	58
202	Enhancing spectral shifts of plasmon-coupled noble metal nanoparticles for sensing applications. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 422-7	3.6	29
201	Oligomers of Parkinson's Disease-Related α -Synuclein Mutants Have Similar Structures but Distinctive Membrane Permeabilization Properties. <i>Biochemistry</i> , 2015 , 54, 3142-50	3.2	34
200	Three Long-Range Distance Constraints and an Approach Towards a Model for the α -Synuclein-Fibril Fold. <i>Applied Magnetic Resonance</i> , 2015 , 46, 369-388	0.8	2
199	Waveguide-coupled micro-ball lens array suitable for mass fabrication. <i>Optics Express</i> , 2015 , 23, 22414-23.3	3.3	11
198	Two distinct β -sheet structures in Italian-mutant amyloid-beta fibrils: a potential link to different clinical phenotypes. <i>Cellular and Molecular Life Sciences</i> , 2015 , 72, 4899-913	10.3	20

197	Supporting data of spatiotemporal proliferation of human stromal cells adjusts to nutrient availability and leads to stanniocalcin-1 expression in vitro and in vivo. <i>Data in Brief</i> , 2015 , 5, 84-94	1.2	1
196	Microcantilever based distance control between a probe and a surface. <i>Review of Scientific Instruments</i> , 2015 , 86, 063706	1.7	3
195	Parkinson's Protein α -Synuclein Binds Efficiently and with a Novel Conformation to Two Natural Membrane Mimics. <i>PLoS ONE</i> , 2015 , 10, e0142795	3.7	7
194	Spatiotemporal proliferation of human stromal cells adjusts to nutrient availability and leads to stanniocalcin-1 expression in vitro and in vivo. <i>Biomaterials</i> , 2015 , 61, 190-202	15.6	9
193	Direct patterning of nanoparticles and biomolecules by liquid nanodispensing. <i>Nanoscale</i> , 2015 , 7, 4497-504	5.4	7
192	Alpha-synuclein amyloid oligomers act as multivalent nanoparticles to cause hemifusion in negatively charged vesicles. <i>Small</i> , 2015 , 11, 2257-62	11	9
191	Fibril breaking accelerates α -Synuclein fibrillization. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1912-8	3.4	34
190	Predicting the loading of virus-like particles with fluorescent proteins. <i>Biomacromolecules</i> , 2014 , 15, 558-63	6.9	52
189	Membrane interactions and fibrillization of α -Synuclein play an essential role in membrane disruption. <i>FEBS Letters</i> , 2014 , 588, 4457-63	3.8	30
188	Evaluation of fluorophores to label SNAP-tag fused proteins for multicolor single-molecule tracking microscopy in live cells. <i>Biophysical Journal</i> , 2014 , 107, 803-14	2.9	64
187	Solution conditions define morphological homogeneity of α -Synuclein fibrils. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014 , 1844, 2127-34	4	30
186	Classification of dynamical diffusion states in single molecule tracking microscopy. <i>Biophysical Journal</i> , 2014 , 107, 588-598	2.9	22
185	Self-assembly of protein fibrils into suprafibrillar aggregates: bridging the nano- and mesoscale. <i>ACS Nano</i> , 2014 , 8, 5543-51	16.7	42
184	Alpha-synuclein binds to the inner membrane of mitochondria in an α -helical conformation. <i>ChemBioChem</i> , 2014 , 15, 2499-502	3.8	60
183	A four-amino acid linker between repeats in the α -Synuclein sequence is important for fibril formation. <i>Biochemistry</i> , 2014 , 53, 279-81	3.2	15
182	α -Synuclein oligomers distinctively permeabilize complex model membranes. <i>FEBS Journal</i> , 2014 , 281, 2838-50	5.7	48
181	Amyloids of alpha-synuclein affect the structure and dynamics of supported lipid bilayers. <i>Biophysical Journal</i> , 2014 , 106, 2585-94	2.9	29
180	Excitation Spectra and Stokes Shift Measurements of Single Organic Dyes at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3259-64	6.4	21

179	Elucidating the aggregation number of dopamine-induced β -synuclein oligomeric assemblies. <i>Biophysical Journal</i> , 2014 , 106, 440-6	2.9	17
178	Plasticity of the MAPK signaling network in response to mechanical stress. <i>PLoS ONE</i> , 2014 , 9, e101963	3.7	6
177	Syntenin-1 and ezrin proteins link activated leukocyte cell adhesion molecule to the actin cytoskeleton. <i>Journal of Biological Chemistry</i> , 2014 , 289, 13445-60	5.4	28
176	Photosynthesis in a different light: spectro-microscopy for in vivo characterization of chloroplasts. <i>Frontiers in Plant Science</i> , 2014 , 5, 292	6.2	3
175	Characterizing Nanoscale Morphologic and Mechanical Properties of β -Synuclein Amyloid Fibrils with Atomic Force Microscopy 2014 , 309-322		2
174	Application of MALDI-TOF mass spectrometry for study on fibrillar and oligomeric aggregates of alpha-synuclein. <i>Biopolymers and Cell</i> , 2014 , 30, 190-196	0.3	1
173	Multimodal fluorescence imaging spectroscopy. <i>Methods in Molecular Biology</i> , 2014 , 1076, 521-36	1.4	1
172	Emission enhancement and lifetime modification of phosphorescence on silver nanoparticle aggregates. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15734-9	3.6	16
171	Fast, single-step, and surfactant-free oligonucleotide modification of gold nanoparticles using DNA with a positively charged tail. <i>Chemical Communications</i> , 2013 , 49, 11400-2	5.8	17
170	Blinking statistics of colloidal quantum dots at different excitation wavelengths. <i>RSC Advances</i> , 2013 , 3, 17440	3.7	9
169	Imaging the static dielectric constant in vitro and in living cells by a bioconjugable GFP chromophore analog. <i>Chemical Communications</i> , 2013 , 49, 1723-5	5.8	15
168	β -Synuclein oligomers: an amyloid pore? Insights into mechanisms of β -synuclein oligomer-lipid interactions. <i>Molecular Neurobiology</i> , 2013 , 47, 613-21	6.2	74
167	Intra-laser-cavity microparticle sensing with a dual-wavelength distributed-feedback laser. <i>Laser and Photonics Reviews</i> , 2013 , 7, 589-598	8.3	16
166	Structural and Compositional Information about Pre-Amyloid Oligomers 2013 , 103-126		
165	Oriented protein immobilization using covalent and noncovalent chemistry on a thiol-reactive self-reporting surface. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3104-11	16.4	31
164	What's in a name? Why these proteins are intrinsically disordered: Why these proteins are intrinsically disordered. <i>Intrinsically Disordered Proteins</i> , 2013 , 1, e24157		171
163	Interplay between myosin IIA-mediated contractility and actin network integrity orchestrates podosome composition and oscillations. <i>Nature Communications</i> , 2013 , 4, 1412	17.4	95
162	Wafer-scale thin encapsulated two-dimensional nanochannels and its application toward visualization of single molecules. <i>Journal of Colloid and Interface Science</i> , 2012 , 367, 455-9	9.3	3

161	Fabrication of cell container arrays with overlaid surface topographies. <i>Biomedical Microdevices</i> , 2012 , 14, 95-107	3.7	36
160	Molecular plasticity regulates oligomerization and cytotoxicity of the multi-peptide-length amyloid- β peptide pool. <i>Journal of Biological Chemistry</i> , 2012 , 287, 36732-43	5.4	29
159	A comparative analysis of the aggregation behavior of amyloid- β peptide variants. <i>FEBS Letters</i> , 2012 , 586, 4088-93	3.8	52
158	Nanophotonic control of the Förster resonance energy transfer efficiency. <i>Physical Review Letters</i> , 2012 , 109, 203601	7.4	109
157	Kinetic measurements give new insights into lipid membrane permeabilization by β -synuclein oligomers. <i>Molecular BioSystems</i> , 2012 , 8, 338-45		33
156	Locally resolved membrane binding affinity of the N-terminus of β -synuclein. <i>Biochemistry</i> , 2012 , 51, 3960-2	3.2	24
155	Structural model for β -synuclein fibrils derived from high resolution imaging and nanomechanical studies using atomic force microscopy. <i>Soft Matter</i> , 2012 , 8, 7215	3.6	22
154	Silver Nanoparticle Aggregates as Highly Efficient Plasmonic Antennas for Fluorescence Enhancement. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16687-16693	3.8	71
153	Tri- and pentamethine cyanine dyes for fluorescent detection of β -synuclein oligomeric aggregates. <i>Journal of Fluorescence</i> , 2012 , 22, 1441-8	2.4	24
152	Spatially resolved frequency-dependent elasticity measured with pulsed force microscopy and nanoindentation. <i>Nanoscale</i> , 2012 , 4, 2072-7	7.7	8
151	A method for spatially resolved local intracellular mechanochemical sensing and organelle manipulation. <i>Biophysical Journal</i> , 2012 , 103, 395-404	2.9	9
150	Nanomechanical properties of single amyloid fibrils. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 243103	10.8	27
149	Elucidating the Alpha-Synuclein Fibril Fold by Pulsed EPR. <i>Biophysical Journal</i> , 2012 , 102, 454a	2.9	2
148	Patterning perylenes on surfaces using thiol-ene chemistry. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16606		9
147	Molecular Composition of Sub-stoichiometrically Labeled β -Synuclein Oligomers Determined by Single-Molecule Photobleaching. <i>Angewandte Chemie</i> , 2012 , 124, 8951-8954	3.6	8
146	Molecular composition of sub-stoichiometrically labeled β -Synuclein oligomers determined by single-molecule photobleaching. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 8821-4	16.4	64
145	Hunting the chameleon: structural conformations of the intrinsically disordered protein alpha-synuclein. <i>ChemBioChem</i> , 2012 , 13, 761-8	3.8	40
144	Atomic force microscopy under controlled conditions reveals structure of C-terminal region of β -synuclein in amyloid fibrils. <i>ACS Nano</i> , 2012 , 6, 5952-60	16.7	47

143	Size-selective detection in integrated optical interferometric biosensors. <i>Optics Express</i> , 2012 , 20, 20934-50	3.5	21
142	Spectral Versatility of Fluorescent Proteins Observed on the Single Molecule Level. <i>Springer Series on Fluorescence</i> , 2011 , 217-240	0.5	
141	Room temperature excitation spectroscopy of single quantum dots. <i>Beilstein Journal of Nanotechnology</i> , 2011 , 2, 516-24	3	9
140	Structural and Functional Insights into β -Synuclein-Lipid Interactions 2011 , 33-55		1
139	Nanomechanical properties of β -synuclein amyloid fibrils: a comparative study by nanoindentation, harmonic force microscopy, and Peakforce QNM. <i>Nanoscale Research Letters</i> , 2011 , 6, 270	5	144
138	Inhibition of β -synuclein aggregation by small heat shock proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011 , 79, 2956-67	4.2	84
137	Strategies for patterning biomolecules with dip-pen nanolithography. <i>Small</i> , 2011 , 7, 989-1002	11	94
136	Patterning: Strategies for Patterning Biomolecules with Dip-Pen Nanolithography (Small 8/2011). <i>Small</i> , 2011 , 7, 982-982	11	2
135	Direct evidence of coexisting horseshoe and extended helix conformations of membrane-bound alpha-synuclein. <i>ChemPhysChem</i> , 2011 , 12, 267-9	3.2	57
134	Single-molecule DNA force spectroscopy to probe interactions with the tri-peptide Lys-Trp-Lys. <i>ChemPhysChem</i> , 2011 , 12, 2545-8	3.2	2
133	Dark proteins disturb multichromophore coupling in tetrameric fluorescent proteins. <i>Journal of Biophotonics</i> , 2011 , 4, 114-21	3.1	3
132	Dendritic ruthenium(II)-based dyes tuneable for diagnostic or therapeutic applications. <i>Chemistry - A European Journal</i> , 2011 , 17, 464-7	4.8	30
131	Patterning of peptide nucleic acids using reactive microcontact printing. <i>Langmuir</i> , 2011 , 27, 1536-42	4	26
130	Interactions of Perylene Bisimide in the One-Dimensional Channels of Zeolite L. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5974-5988	3.8	52
129	Microspectroscopic analysis of green fluorescent proteins infiltrated into mesoporous silica nanochannels. <i>Journal of Colloid and Interface Science</i> , 2011 , 356, 123-30	9.3	15
128	Analysis of single quantum-dot mobility inside 1D nanochannel devices. <i>Nanotechnology</i> , 2011 , 22, 27520-14	9.1	8
127	Integrin-dependent activation of the JNK signaling pathway by mechanical stress. <i>PLoS ONE</i> , 2011 , 6, e26182	3.7	29
126	Biophysical Analysis of Amyloid Formation 2011 , 347-359		

125	Neurotoxicity of Alzheimer's disease A β peptides is induced by small changes in the A β 2 to A β 0 ratio. <i>EMBO Journal</i> , 2010 , 29, 3408-20	13	376
124	Membrane Permeabilization by Oligomeric β -Synuclein: In Search of the Mechanism. <i>PLoS ONE</i> , 2010 , 5, e14292	3.7	105
123	Force spectroscopy and fluorescence microscopy of dsDNA-YOYO-1 complexes: implications for the structure of dsDNA in the overstretching region. <i>Nucleic Acids Research</i> , 2010 , 38, 3423-31	20.1	43
122	Pyrylium monolayers as amino-reactive platform. <i>Chemical Communications</i> , 2010 , 46, 4193-5	5.8	20
121	Long-range energy propagation in nanometer arrays of light harvesting antenna complexes. <i>Nano Letters</i> , 2010 , 10, 1450-7	11.5	50
120	Microbioreactors for Raman microscopy of stromal cell differentiation. <i>Analytical Chemistry</i> , 2010 , 82, 1844-50	7.8	20
119	Protein immobilization on Ni(II) ion patterns prepared by microcontact printing and dip-pen nanolithography. <i>ACS Nano</i> , 2010 , 4, 1083-91	16.7	26
118	A stable lipid-induced aggregate of alpha-synuclein. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4080-2	16.4	39
117	Simultaneous time-resolved measurement of the reaction rates and the refractive index of photopolymerization processes. <i>Applied Optics</i> , 2010 , 49, 3316-22	0.2	0
116	The use of fluorescent dyes and probes in surgical oncology. <i>European Journal of Surgical Oncology</i> , 2010 , 36, 6-15	3.6	112
115	Membrane interactions of oligomeric alpha-synuclein: potential role in Parkinson's disease. <i>Current Protein and Peptide Science</i> , 2010 , 11, 334-42	2.8	39
114	Studies of interaction between cyanine dye T-284 and fibrillar alpha-synuclein. <i>Journal of Fluorescence</i> , 2010 , 20, 1267-74	2.4	10
113	Spatially resolved local intracellular chemical sensing using magnetic particles. <i>Sensors and Actuators B: Chemical</i> , 2010 , 148, 531-538	8.5	7
112	Visualizing resonance energy transfer in supramolecular surface patterns of ECD-functionalized quantum dot hosts and organic dye guests by fluorescence lifetime imaging. <i>Small</i> , 2010 , 6, 2870-6	11	12
111	Fluorescence Lifetime Spectroscopy and Imaging of Visible Fluorescent Proteins 2009 , 147-176		14
110	Rapid, ultrasensitive detection of microorganisms based on interferometry and lab-on-a-chip nanotechnology 2009 ,		2
109	Single-molecule spectral dynamics at room temperature. <i>Molecular Physics</i> , 2009 , 107, 1923-1942	1.7	22
108	Modulation of protein dimerization by a supramolecular host-guest system. <i>Chemistry - A European Journal</i> , 2009 , 15, 8779-90	4.8	34

107	Single-molecule FRET reveals structural heterogeneity of SDS-bound alpha-synuclein. <i>ChemBioChem</i> , 2009 , 10, 436-9	3.8	50
106	Single-molecule spectroscopy of fluorescent proteins. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 527-41	4.4	24
105	A hybrid total internal reflection fluorescence and optical tweezers microscope to study cell adhesion and membrane protein dynamics of single living cells. <i>Journal of Microscopy</i> , 2009 , 233, 84-92	1.9	11
104	Temperature-modulated quenching of quantum dots covalently coupled to chain ends of poly(N-isopropyl acrylamide) brushes on gold. <i>Nanotechnology</i> , 2009 , 20, 185501	3.4	29
103	Expression of sensitized Eu(3+) luminescence at a multivalent interface. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12567-9	16.4	44
102	FRET pair printing of fluorescent proteins. <i>Langmuir</i> , 2009 , 25, 7019-24	4	7
101	Lipid bilayer disruption by oligomeric alpha-synuclein depends on bilayer charge and accessibility of the hydrophobic core. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009 , 1788, 1271-8	3.8	126
100	Tryptophan fluorescence reveals structural features of alpha-synuclein oligomers. <i>Journal of Molecular Biology</i> , 2009 , 394, 826-33	6.5	91
99	Spectral emission imaging to map photonic properties below the crystal surface of 3D photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 2101	1.7	2
98	Interaction of oxazole yellow dyes with DNA studied with hybrid optical tweezers and fluorescence microscopy. <i>Biophysical Journal</i> , 2009 , 97, 835-43	2.9	67
97	Multimode microscopy: spectral and lifetime imaging. <i>Journal of the Royal Society Interface</i> , 2009 , 6,	4.1	22
96	Porous multilayer-coated AFM tips for dip-pen nanolithography of proteins. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7526-7	16.4	33
95	Explorations of the application of cyanine dyes for quantitative alpha-synuclein detection. <i>Biotechnic and Histochemistry</i> , 2009 , 84, 55-61	1.8	15
94	Manipulation of the local density of photonic states to elucidate fluorescent protein emission rates. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2525-31	3.6	15
93	Multiparameter single molecule spectroscopy gives insight into the complex photophysics of fluorescence energy transfer (FRET) coupled biosystems 2009 ,		2
92	A Fast and Sensitive Integrated Young Interferometer Biosensor. <i>Integrated Analytical Systems</i> , 2009 , 265-295	0.4	2
91	Membrane binding of oligomeric alpha-synuclein depends on bilayer charge and packing. <i>FEBS Letters</i> , 2008 , 582, 3788-92	3.8	59
90	Concentration dependence of alpha-synuclein fibril length assessed by quantitative atomic force microscopy and statistical-mechanical theory. <i>Biophysical Journal</i> , 2008 , 95, 4871-8	2.9	54

89	Refractive index sensing of green fluorescent proteins in living cells using fluorescence lifetime imaging microscopy. <i>Biophysical Journal</i> , 2008 , 94, L67-9	2.9	99
88	Modeling and Experimental Verification of the Dynamic Interaction of an AFM-Tip With a Photonic Crystal Microcavity. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 57-59	2.2	4
87	Biofunctionalized lipid-polymer hybrid nanocontainers with controlled permeability. <i>Nano Letters</i> , 2008 , 8, 1105-10	11.5	18
86	Directed assembly of functional light harvesting antenna complexes onto chemically patterned surfaces. <i>Nanotechnology</i> , 2008 , 19, 025101	3.4	24
85	Time, space, and spectrally resolved studies on J-aggregate interactions in zeolite L nanochannels. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10970-6	16.4	88
84	Antiparallel arrangement of the helices of vesicle-bound alpha-synuclein. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7796-7	16.4	97
83	Nanometer arrays of functional light harvesting antenna complexes by nanoimprint lithography and host-guest interactions. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8892-3	16.4	63
82	Assembly of bionanostructures onto beta-cyclodextrin molecular printboards for antibody recognition and lymphocyte cell counting. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6964-73	16.4	61
81	Intracellular manipulation of chromatin using magnetic nanoparticles. <i>Chromosome Research</i> , 2008 , 16, 511-22	4.4	36
80	Color control of natural fluorescent proteins by photonic crystals. <i>Small</i> , 2008 , 4, 492-6	11	40
79	Spin-label EPR on alpha-synuclein reveals differences in the membrane binding affinity of the two antiparallel helices. <i>ChemBioChem</i> , 2008 , 9, 2411-6	3.8	55
78	Anchoring of histidine-tagged proteins to molecular printboards: self-assembly, thermodynamic modeling, and patterning. <i>Chemistry - A European Journal</i> , 2008 , 14, 2044-51	4.8	40
77	Spectral versatility of single reef coral fluorescent proteins detected by spectrally-resolved single molecule spectroscopy. <i>ChemPhysChem</i> , 2008 , 9, 310-5	3.2	12
76	Fabrication and visualization of metal-ion patterns on glass by dip-pen nanolithography. <i>ChemPhysChem</i> , 2008 , 9, 1680-7	3.2	15
75	Specific fluorescent detection of fibrillar alpha-synuclein using mono- and trimethine cyanine dyes. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 1452-9	3.4	52
74	Tissue transglutaminase modulates alpha-synuclein oligomerization. <i>Protein Science</i> , 2008 , 17, 1395-402	6.3	50
73	New insights into the photophysics of DsRed by multiparameter spectroscopy on single proteins. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 7669-74	3.4	25
72	Directed formation of micro- and nanoscale patterns of functional light-harvesting LH2 complexes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14625-31	16.4	50

71	Direct observation of nanomechanical properties of chromatin in living cells. <i>Nano Letters</i> , 2007 , 7, 1424-1428	11.5	59
70	Micromechanical bending of single collagen fibrils using atomic force microscopy. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 82, 160-8	5.4	99
69	Combining optical tweezers and scanning probe microscopy to study DNA-protein interactions. <i>Microscopy Research and Technique</i> , 2007 , 70, 26-33	2.8	16
68	Creating nanopatterns of His-tagged proteins on surfaces by nanoimprint lithography using specific NiNTA-histidine interactions. <i>Small</i> , 2007 , 3, 1584-92	11	52
67	Cyanine dye-protein interactions: looking for fluorescent probes for amyloid structures. <i>Journal of Proteomics</i> , 2007 , 70, 727-33		61
66	Fast, ultrasensitive virus detection using a Young interferometer sensor. <i>Nano Letters</i> , 2007 , 7, 394-7	11.5	224
65	An ultrasensitive young interferometer handheld sensor for rapid virus detection. <i>Expert Review of Medical Devices</i> , 2007 , 4, 447-54	3.5	11
64	Quantitative characterization of protein nanostructures using atomic force microscopy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6609-12		6
63	Covalent microcontact printing of proteins for cell patterning. <i>Chemistry - A European Journal</i> , 2006 , 12, 6290-7	4.8	111
62	Quantitative morphological analysis reveals ultrastructural diversity of amyloid fibrils from alpha-synuclein mutants. <i>Biophysical Journal</i> , 2006 , 91, L96-8	2.9	89
61	Single oligomer spectra probe chromophore nanoenvironments of tetrameric fluorescent proteins. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8664-70	16.4	20
60	Dependence of silicon position-detector bandwidth on wavelength, power, and bias. <i>Optics Letters</i> , 2006 , 31, 610-2	3	18
59	Force constant calibration corrections for silicon position detectors in the near-infrared. <i>Optics Express</i> , 2006 , 14, 8476-81	3.3	
58	Nano-mechanical tuning and imaging of a photonic crystal micro-cavity resonance. <i>Optics Express</i> , 2006 , 14, 8745-52	3.3	51
57	Force detection in optical tweezers using backscattered light. <i>Optics Express</i> , 2005 , 13, 1113-23	3.3	46
56	Combined AFM and confocal fluorescence microscope for applications in bio-nanotechnology. <i>Journal of Microscopy</i> , 2005 , 217, 109-16	1.9	119
55	NMR of alpha-synuclein-polyamine complexes elucidates the mechanism and kinetics of induced aggregation. <i>EMBO Journal</i> , 2004 , 23, 2039-46	13	202
54	Sensitive Electrochemical Detection of Native and Aggregated α -Synuclein Protein Involved in Parkinson's Disease. <i>Electroanalysis</i> , 2004 , 16, 1172-1181	3	76

53	Room temperature spectrally resolved single-molecule spectroscopy reveals new spectral forms and photophysical versatility of aequorea green fluorescent protein variants. <i>Biophysical Journal</i> , 2004 , 87, 4172-9	2.9	34
52	Rapid self-assembly of alpha-synuclein observed by in situ atomic force microscopy. <i>Journal of Molecular Biology</i> , 2004 , 340, 127-39	6.5	152
51	Double-stranded DNA stimulates the fibrillation of alpha-synuclein in vitro and is associated with the mature fibrils: an electron microscopy study. <i>Journal of Molecular Biology</i> , 2004 , 344, 929-38	6.5	56
50	Impact of the acidic C-terminal region comprising amino acids 109-140 on alpha-synuclein aggregation in vitro. <i>Biochemistry</i> , 2004 , 43, 16233-42	3.2	268
49	Photophysics of green and red fluorescent proteins: implications for quantitative microscopy. <i>Methods in Enzymology</i> , 2003 , 360, 178-201	1.7	27
48	Local changes in the catalytic site of mammalian histidine decarboxylase can affect its global conformation and stability. <i>FEBS Journal</i> , 2003 , 270, 4376-87		27
47	Cellular polyamines promote the aggregation of alpha-synuclein. <i>Journal of Biological Chemistry</i> , 2003 , 278, 3235-40	5.4	132
46	Red-shifted mutants of green fluorescent protein: reversible photoconversions studied by hole-burning and high-resolution spectroscopy. <i>Chemical Physics</i> , 2002 , 275, 109-121	2.3	26
45	SNARE assembly and disassembly exhibit a pronounced hysteresis. <i>Nature Structural Biology</i> , 2002 , 9, 144-51		124
44	Single molecule fluorescence spectroscopy of mutants of the Discosoma red fluorescent protein DsRed. <i>Chemical Physics Letters</i> , 2002 , 362, 355-361	2.5	13
43	A molecular beacon strategy for real-time monitoring of triplex DNA formation kinetics. <i>Oligonucleotides</i> , 2002 , 12, 145-54		14
42	Identification, cloning and characterization of a new DNA-binding protein from the hyperthermophilic methanogen <i>Methanopyrus kandleri</i> . <i>Nucleic Acids Research</i> , 2002 , 30, 685-94	20.1	13
41	Resonance CARS study of the structure of "green" and "red" chromophores within the red fluorescent protein DsRed. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10992-3	16.4	17
40	Ultrafast dynamics in the excited state of green fluorescent protein (wt) studied by frequency-resolved femtosecond pump-probe spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 1072-1081	3.6	76
39	Amyloid fibrils from the mammalian protein prothymosin alpha. <i>FEBS Letters</i> , 2002 , 517, 37-40	3.8	27
38	Oligomerization of DsRed is required for the generation of a functional red fluorescent chromophore. <i>FEBS Letters</i> , 2002 , 525, 13-9	3.8	40
37	Dependence of alpha-synuclein aggregate morphology on solution conditions. <i>Journal of Molecular Biology</i> , 2002 , 322, 383-93	6.5	407
36	Dynamic fluorescence anisotropy imaging microscopy in the frequency domain (rFLIM). <i>Biophysical Journal</i> , 2002 , 83, 1631-49	2.9	171

35	Resonance energy transfer in a calcium concentration-dependent cameleon protein. <i>Biophysical Journal</i> , 2002 , 83, 3499-506	2.9	32
34	Room Temperature Tryptophan Phosphorescence as a Probe of Structural and Dynamic Properties of Proteins 2002 , 43-65		1
33	Binding of p53 and its core domain to supercoiled DNA. <i>FEBS Journal</i> , 2001 , 268, 573-81		33
32	Fluorescence lifetime imaging: multi-point calibration, minimum resolvable differences, and artifact suppression. <i>Cytometry</i> , 2001 , 43, 248-60		100
31	The nature of fluorescence emission in the red fluorescent protein DsRed, revealed by single-molecule detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 14392-7	11.5	85
30	Aromatic amino acids are critical for stability of the bicoid homeodomain. <i>Journal of Biological Chemistry</i> , 2001 , 276, 21506-11	5.4	18
29	Molecular beacons: nucleic acid hybridization and emerging applications. <i>Journal of Biomolecular Structure and Dynamics</i> , 2001 , 19, 497-504	3.6	26
28	Photophysics and optical switching in green fluorescent protein mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 2974-2978	11.5	93
27	Effects of Oxidation Agents and Metal Ions on Binding of p53 to Supercoiled DNA. <i>Journal of Biomolecular Structure and Dynamics</i> , 2000 , 17 Suppl 1, 177-83	3.6	4
26	Scanning force microscopy of the complexes of p53 core domain with supercoiled DNA. <i>Journal of Molecular Biology</i> , 2000 , 299, 585-92	6.5	40
25	One- and two-photon excited fluorescence lifetimes and anisotropy decays of green fluorescent proteins. <i>Biophysical Journal</i> , 2000 , 78, 1589-98	2.9	157
24	EGFP and DsRed expressing cultures of Escherichia coli imaged by confocal, two-photon and fluorescence lifetime microscopy. <i>FEBS Letters</i> , 2000 , 479, 131-5	3.8	136
23	Photophysics and optical switching in green fluorescent protein mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 2974-8	11.5	51
22	Fluorescence resonance energy transfer detected by scanning near-field optical microscopy. <i>Journal of Microscopy</i> , 1999 , 194, 448-54	1.9	24
21	Three photoconvertible forms of green fluorescent protein identified by spectral hole-burning. <i>Nature Structural Biology</i> , 1999 , 6, 706		117
20	Three photoconvertible forms of green fluorescent protein identified by spectral hole-burning. <i>Nature Structural Biology</i> , 1999 , 6, 557-60		91
19	Picosecond multiphoton scanning near-field optical microscopy. <i>Biophysical Journal</i> , 1999 , 76, 1092-100	2.9	30
18	Photochromicity and Fluorescence Lifetimes of Green Fluorescent Protein. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 8612-8617	3.4	282

17	Identification of Single Molecules in Aqueous Solution by Time-Resolved Fluorescence Anisotropy. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 331-336	2.8	147
16	DNA bending due to specific p53 and p53 core domain-DNA interactions visualized by electron microscopy. <i>Journal of Molecular Biology</i> , 1999 , 294, 1015-26	6.5	47
15	Generation of alternative Ultrabithorax isoforms and stepwise removal of a large intron by resplicing at exon-exon junctions. <i>Molecular Cell</i> , 1998 , 2, 787-96	17.6	93
14	Continuous wave two-photon scanning near-field optical microscopy. <i>Biophysical Journal</i> , 1998 , 75, 1513-21	2.1	26
13	Cell biological applications of scanning near-field optical microscopy (SNOM). <i>Cellular and Molecular Biology</i> , 1998 , 44, 689-700	1.1	25
12	Measurement of mode field profiles and bending and transition losses in curved optical channel waveguides. <i>Journal of Lightwave Technology</i> , 1997 , 15, 990-997	4	44
11	Scanning Near-Field Optical Microscopy and Microspectroscopy of Green Fluorescent Protein in Intact Escherichia coli Bacteria. <i>Journal of Fluorescence</i> , 1997 , 7, 381-385	2.4	5
10	Time-resolved tryptophan phosphorescence spectroscopy: a sensitive probe of protein folding and structure. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1996 , 2, 1107-1114	3.8	11
9	CD-tagging: a new approach to gene and protein discovery and analysis. <i>BioTechniques</i> , 1996 , 20, 896-904	1.5	63
8	In vitro renaturation of bovine beta-lactoglobulin A leads to a biologically active but incompletely refolded state. <i>Protein Science</i> , 1996 , 5, 2089-94	6.3	23
7	Phosphorescence reveals a continued slow annealing of the protein core following reactivation of Escherichia coli alkaline phosphatase. <i>Biochemistry</i> , 1995 , 34, 1133-6	3.2	41
6	Watching Proteins Fold with Transient Laser Spectroscopy. <i>Optics and Photonics News</i> , 1995 , 6, 37	1.9	
5	Transient laser spectroscopy of protein folding: detection and characterization of slow annealing processes 1995 ,		1
4	Observation of near-band-gap luminescence from boron nitride films. <i>Applied Physics Letters</i> , 1994 , 65, 1251-1253	3.4	56
3	Cathodoluminescence Spectroscopy of Boron Nitride Films. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 339, 339		
2	Functional differences between Ultrabithorax protein isoforms in Drosophila melanogaster: evidence from elimination, substitution and ectopic expression of specific isoforms. <i>Genetics</i> , 1994 , 136, 979-91	4	29
1	Scanning Near-Field Optical Imaging and Spectroscopy in Cell Biology	271-290	