

Vinod Subramaniam

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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	Dependence of alpha-synuclein aggregate morphology on solution conditions. <i>Journal of Molecular Biology</i> , 2002 , 322, 383-93	6.5	407
231	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
230	Photochromicity and Fluorescence Lifetimes of Green Fluorescent Protein. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 8612-8617	3.4	282
229	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
228	Fast, ultrasensitive virus detection using a Young interferometer sensor. <i>Nano Letters</i> , 2007 , 7, 394-7	11.5	224
227	NMR of alpha-synuclein-polyamine complexes elucidates the mechanism and kinetics of induced aggregation. <i>EMBO Journal</i> , 2004 , 23, 2039-46	13	202
226	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
225	Dynamic fluorescence anisotropy imaging microscopy in the frequency domain (rFLIM). <i>Biophysical Journal</i> , 2002 , 83, 1631-49	2.9	171
224	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
223	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
222	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
221	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
220	EFGP 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
219	Cellular polyamines promote the aggregation of alpha-synuclein. <i>Journal of Biological Chemistry</i> , 2003 , 278, 3235-40	5.4	132
218	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
217	SNARE assembly and disassembly exhibit a pronounced hysteresis. <i>Nature Structural Biology</i> , 2002 , 9, 144-51		124
216	Combined AFM and confocal fluorescence microscope for applications in bio-nanotechnology. <i>Journal of Microscopy</i> , 2005 , 217, 109-16	1.9	119

215	Three photoconvertible forms of green fluorescent protein identified by spectral hole-burning. <i>Nature Structural Biology</i> , 1999 , 6, 706		117
214	The use of fluorescent dyes and probes in surgical oncology. <i>European Journal of Surgical Oncology</i> , 2010 , 36, 6-15	3.6	112
213	Covalent microcontact printing of proteins for cell patterning. <i>Chemistry - A European Journal</i> , 2006 , 12, 6290-7	4.8	111
212	Nanophotonic control of the Förster resonance energy transfer efficiency. <i>Physical Review Letters</i> , 2012 , 109, 203601	7.4	109
211	Membrane Permeabilization by Oligomeric β -Synuclein: In Search of the Mechanism. <i>PLoS ONE</i> , 2010 , 5, e14292	3.7	105
210	Fluorescence lifetime imaging: multi-point calibration, minimum resolvable differences, and artifact suppression. <i>Cytometry</i> , 2001 , 43, 248-60		100
209	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
208	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
207	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
206	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
205	Strategies for patterning biomolecules with dip-pen nanolithography. <i>Small</i> , 2011 , 7, 989-1002	11	94
204	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
203	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
202	Tryptophan fluorescence reveals structural features of alpha-synuclein oligomers. <i>Journal of Molecular Biology</i> , 2009 , 394, 826-33	6.5	91
201	Three photoconvertible forms of green fluorescent protein identified by spectral hole-burning. <i>Nature Structural Biology</i> , 1999 , 6, 557-60		91
200	Quantitative morphological analysis reveals ultrastructural diversity of amyloid fibrils from alpha-synuclein mutants. <i>Biophysical Journal</i> , 2006 , 91, L96-8	2.9	89
199	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
198	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

197	Inhibition of β -synuclein aggregation by small heat shock proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011 , 79, 2956-67	4.2	84
196	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
195	Sensitive Electrochemical Detection of Native and Aggregated β -Synuclein Protein Involved in Parkinson's Disease. <i>Electroanalysis</i> , 2004 , 16, 1172-1181	3	76
194	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
193	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
192	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
191	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
190	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
189	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
188	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
187	CD-tagging: a new approach to gene and protein discovery and analysis. <i>BioTechniques</i> , 1996 , 20, 896-904	4.5	63
186	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
185	Cyanine dye-protein interactions: looking for fluorescent probes for amyloid structures. <i>Journal of Proteomics</i> , 2007 , 70, 727-33		61
184	Alpha-synuclein binds to the inner membrane of mitochondria in an β -helical conformation. <i>ChemBioChem</i> , 2014 , 15, 2499-502	3.8	60
183	Membrane binding of oligomeric alpha-synuclein depends on bilayer charge and packing. <i>FEBS Letters</i> , 2008 , 582, 3788-92	3.8	59
182	Direct observation of nanomechanical properties of chromatin in living cells. <i>Nano Letters</i> , 2007 , 7, 1424-1427	11.5	59
181	The Impact of N-terminal Acetylation of β -Synuclein on Phospholipid Membrane Binding and Fibril Structure. <i>Journal of Biological Chemistry</i> , 2016 , 291, 21110-21122	5.4	58
180	Solubilization of lipids and lipid phases by the styrene-maleic acid copolymer. <i>European Biophysics Journal</i> , 2017 , 46, 91-101	1.9	57

179	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
178	Direct evidence of coexisting horseshoe and extended helix conformations of membrane-bound alpha-synuclein. <i>ChemPhysChem</i> , 2011 , 12, 267-9	3.2	57
177	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
176	Observation of near-band-gap luminescence from boron nitride films. <i>Applied Physics Letters</i> , 1994 , 65, 1251-1253	3.4	56
175	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
174	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
173	Predicting the loading of virus-like particles with fluorescent proteins. <i>Biomacromolecules</i> , 2014 , 15, 558-63	6.9	52
172	A comparative analysis of the aggregation behavior of amyloid- β peptide variants. <i>FEBS Letters</i> , 2012 , 586, 4088-93	3.8	52
171	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
170	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
169	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
168	Nano-mechanical tuning and imaging of a photonic crystal micro-cavity resonance. <i>Optics Express</i> , 2006 , 14, 8745-52	3.3	51
167	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
166	Long-range energy propagation in nanometer arrays of light harvesting antenna complexes. <i>Nano Letters</i> , 2010 , 10, 1450-7	11.5	50
165	Single-molecule FRET reveals structural heterogeneity of SDS-bound alpha-synuclein. <i>ChemBioChem</i> , 2009 , 10, 436-9	3.8	50
164	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
163	Tissue transglutaminase modulates alpha-synuclein oligomerization. <i>Protein Science</i> , 2008 , 17, 1395-4026.3		50
162	β -Synuclein oligomers distinctively permeabilize complex model membranes. <i>FEBS Journal</i> , 2014 , 281, 2838-50	5.7	48

161	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
160	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
159	Force detection in optical tweezers using backscattered light. <i>Optics Express</i> , 2005 , 13, 1113-23	3.3	46
158	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
157	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
156	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
155	Self-assembly of protein fibrils into suprafibrillar aggregates: bridging the nano- and mesoscale. <i>ACS Nano</i> , 2014 , 8, 5543-51	16.7	42
154	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
153	Hunting the chameleon: structural conformations of the intrinsically disordered protein alpha-synuclein. <i>ChemBioChem</i> , 2012 , 13, 761-8	3.8	40
152	Color control of natural fluorescent proteins by photonic crystals. <i>Small</i> , 2008 , 4, 492-6	11	40
151	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
150	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
149	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
148	A stable lipid-induced aggregate of alpha-synuclein. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4080-2	16.4	39
147	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
146	Fabrication of cell container arrays with overlaid surface topographies. <i>Biomedical Microdevices</i> , 2012 , 14, 95-107	3.7	36
145	Intracellular manipulation of chromatin using magnetic nanoparticles. <i>Chromosome Research</i> , 2008 , 16, 511-22	4.4	36
144	Oligomers of Parkinson's Disease-Related β -synuclein Mutants Have Similar Structures but Distinctive Membrane Permeabilization Properties. <i>Biochemistry</i> , 2015 , 54, 3142-50	3.2	34

143	Fibril breaking accelerates β -synuclein fibrillization. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1912-8	3.4	34
142	Modulation of protein dimerization by a supramolecular host-guest system. <i>Chemistry - A European Journal</i> , 2009 , 15, 8779-90	4.8	34
141	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
140	Kinetic measurements give new insights into lipid membrane permeabilization by β -synuclein oligomers. <i>Molecular BioSystems</i> , 2012 , 8, 338-45		33
139	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
138	Binding of p53 and its core domain to supercoiled DNA. <i>FEBS Journal</i> , 2001 , 268, 573-81		33
137	Resonance energy transfer in a calcium concentration-dependentameleon protein. <i>Biophysical Journal</i> , 2002 , 83, 3499-506	2.9	32
136	Distinct Mechanisms Determine β -Synuclein Fibril Morphology during Growth and Maturation. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 538-547	5.7	31
135	Controlling Protein Surface Orientation by Strategic Placement of Oligo-Histidine Tags. <i>ACS Nano</i> , 2017 , 11, 9068-9083	16.7	31
134	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
133	Membrane interactions and fibrillization of β -synuclein play an essential role in membrane disruption. <i>FEBS Letters</i> , 2014 , 588, 4457-63	3.8	30
132	Solution conditions define morphological homogeneity of β -synuclein fibrils. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014 , 1844, 2127-34	4	30
131	Dendritic ruthenium(II)-based dyes tuneable for diagnostic or therapeutic applications. <i>Chemistry - A European Journal</i> , 2011 , 17, 464-7	4.8	30
130	Picosecond multiphoton scanning near-field optical microscopy. <i>Biophysical Journal</i> , 1999 , 76, 1092-100	2.9	30
129	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
128	Amyloids of alpha-synuclein affect the structure and dynamics of supported lipid bilayers. <i>Biophysical Journal</i> , 2014 , 106, 2585-94	2.9	29
127	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
126	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

125	Integrin-dependent activation of the JNK signaling pathway by mechanical stress. <i>PLoS ONE</i> , 2011 , 6, e26182	3.7	29
124	Functional differences between Ultrabithorax protein isoforms in <i>Drosophila melanogaster</i> : evidence from elimination, substitution and ectopic expression of specific isoforms. <i>Genetics</i> , 1994 , 136, 979-91	4	29
123	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
122	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
121	Nanomechanical properties of single amyloid fibrils. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 243108	10.8	27
120	Photophysics of green and red fluorescent proteins: implications for quantitative microscopy. <i>Methods in Enzymology</i> , 2003 , 360, 178-201	1.7	27
119	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
118	Amyloid fibrils from the mammalian protein prothymosin alpha. <i>FEBS Letters</i> , 2002 , 517, 37-40	3.8	27
117	Functionally different β -synuclein inclusions yield insight into Parkinson's disease pathology. <i>Scientific Reports</i> , 2016 , 6, 23116	4.9	26
116	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
115	Patterning of peptide nucleic acids using reactive microcontact printing. <i>Langmuir</i> , 2011 , 27, 1536-42	4	26
114	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
113	Molecular beacons: nucleic acid hybridization and emerging applications. <i>Journal of Biomolecular Structure and Dynamics</i> , 2001 , 19, 497-504	3.6	26
112	Continuous wave two-photon scanning near-field optical microscopy. <i>Biophysical Journal</i> , 1998 , 75, 1513-21	3.2	26
111	Direct Observation of β -Synuclein Amyloid Aggregates in Endocytic Vesicles of Neuroblastoma Cells. <i>PLoS ONE</i> , 2016 , 11, e0153020	3.7	26
110	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
109	Cell biological applications of scanning near-field optical microscopy (SNOM). <i>Cellular and Molecular Biology</i> , 1998 , 44, 689-700	1.1	25
108	Locally resolved membrane binding affinity of the N-terminus of β -synuclein. <i>Biochemistry</i> , 2012 , 51, 3960-2	3.2	24

107	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
106	Single-molecule spectroscopy of fluorescent proteins. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 527-41	4.4	24
105	Directed assembly of functional light harvesting antenna complexes onto chemically patterned surfaces. <i>Nanotechnology</i> , 2008 , 19, 025101	3.4	24
104	Fluorescence resonance energy transfer detected by scanning near-field optical microscopy. <i>Journal of Microscopy</i> , 1999 , 194, 448-54	1.9	24
103	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
102	Classification of dynamical diffusion states in single molecule tracking microscopy. <i>Biophysical Journal</i> , 2014 , 107, 588-598	2.9	22
101	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
100	Single-molecule spectral dynamics at room temperature. <i>Molecular Physics</i> , 2009 , 107, 1923-1942	1.7	22
99	Multimode microscopy: spectral and lifetime imaging. <i>Journal of the Royal Society Interface</i> , 2009 , 6,	4.1	22
98	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
97	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
96	Size-selective detection in integrated optical interferometric biosensors. <i>Optics Express</i> , 2012 , 20, 20934-50	3.5	21
95	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
94	Pyrylium monolayers as amino-reactive platform. <i>Chemical Communications</i> , 2010 , 46, 4193-5	5.8	20
93	Microbioreactors for Raman microscopy of stromal cell differentiation. <i>Analytical Chemistry</i> , 2010 , 82, 1844-50	7.8	20
92	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
91	Conformational Compatibility Is Essential for Heterologous Aggregation of β -Synuclein. <i>ACS Chemical Neuroscience</i> , 2016 , 7, 719-27	5.7	19
90	Room-temperature in-cell EPR spectroscopy: alpha-Synuclein disease variants remain intrinsically disordered in the cell. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 18147-18151	3.6	19

89	βSynuclein 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
88	Biofunctionalized lipid-polymer hybrid nanocontainers with controlled permeability. <i>Nano Letters</i> , 2008 , 8, 1105-10	11.5	18
87	Dependence of silicon position-detector bandwidth on wavelength, power, and bias. <i>Optics Letters</i> , 2006 , 31, 610-2	3	18
86	Aromatic amino acids are critical for stability of the bicoid homeodomain. <i>Journal of Biological Chemistry</i> , 2001 , 276, 21506-11	5.4	18
85	Elucidating the aggregation number of dopamine-induced βSynuclein oligomeric assemblies. <i>Biophysical Journal</i> , 2014 , 106, 440-6	2.9	17
84	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
83	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
82	Exogenous βSynuclein hinders synaptic communication in cultured cortical primary rat neurons. <i>PLoS ONE</i> , 2018 , 13, e0193763	3.7	17
81	Emission enhancement and lifetime modification of phosphorescence on silver nanoparticle aggregates. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15734-9	3.6	16
80	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
79	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
78	A four-amino acid linker between repeats in the βSynuclein sequence is important for fibril formation. <i>Biochemistry</i> , 2014 , 53, 279-81	3.2	15
77	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
76	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
75	Explorations of the application of cyanine dyes for quantitative alpha-synuclein detection. <i>Biotechnic and Histochemistry</i> , 2009 , 84, 55-61	1.8	15
74	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
73	Fabrication and visualization of metal-ion patterns on glass by dip-pen nanolithography. <i>ChemPhysChem</i> , 2008 , 9, 1680-7	3.2	15
72	Membrane-Bound Alpha Synuclein Clusters Induce Impaired Lipid Diffusion and Increased Lipid Packing. <i>Biophysical Journal</i> , 2016 , 111, 2440-2449	2.9	15

71	Fluorescence Lifetime Spectroscopy and Imaging of Visible Fluorescent Proteins 2009 , 147-176		14
70	A molecular beacon strategy for real-time monitoring of triplex DNA formation kinetics. <i>Oligonucleotides</i> , 2002 , 12, 145-54		14
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