

List of Publications by Citations

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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.

212 papers	8,747 citations	52 h-index	83 g-index
226 ext. papers	9,970 ext. citations	6.2 avg, IF	6.59 L-index

#	Paper	IF	Citations
212	Analysis of body fluids for forensic purposes: from laboratory testing to non-destructive rapid confirmatory identification at a crime scene. <i>Forensic Science International</i> , 2009 , 188, 1-17	2.6	428
211	Photonic crystal carbohydrate sensors: low ionic strength sugar sensing. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3322-9	16.4	424
210	High ionic strength glucose-sensing photonic crystal. <i>Analytical Chemistry</i> , 2003 , 75, 2316-23	7.8	339
209	Femtosecond time-resolved UV-visible absorption spectroscopy of trans-azobenzene: dependence on excitation wavelength. <i>Chemical Physics Letters</i> , 1998 , 290, 68-74	2.5	195
208	Femtosecond Time-Resolved UV-Visible Absorption Spectroscopy of trans-Azobenzene in Solution. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 13338-13341		191
207	Helix Peptide Folding and Unfolding Activation Barriers: A Nanosecond UV Resonance Raman Study. <i>Journal of the American Chemical Society</i> , 1999 , 121, 8074-8086	16.4	189
206	Raman spectroscopy offers great potential for the nondestructive confirmatory identification of body fluids. <i>Forensic Science International</i> , 2008 , 181, e1-5	2.6	149
205	UV resonance Raman investigations of peptide and protein structure and dynamics. <i>Chemical Reviews</i> , 2012 , 112, 2604-28	68.1	144
204	Exploring the structure and formation mechanism of amyloid fibrils by Raman spectroscopy: a review. <i>Analyst, The</i> , 2015 , 140, 4967-80	5	137
203	Hexameric calgranulin C (S100A12) binds to the receptor for advanced glycated end products (RAGE) using symmetric hydrophobic target-binding patches. <i>Journal of Biological Chemistry</i> , 2007 , 282, 4218-31	5.4	128
202	Structure and composition of insulin fibril surfaces probed by TERS. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13323-9	16.4	127
201	Vibrational circular dichroism shows unusual sensitivity to protein fibril formation and development in solution. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12364-5	16.4	126
200	Raman spectroscopic signature of blood and its potential application to forensic body fluid identification. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 525-34	4.4	113
199	Amide I vibrational mode suppression in surface (SERS) and tip (TERS) enhanced Raman spectra of protein specimens. <i>Analyst, The</i> , 2013 , 138, 1665-73	5	109
198	Direct observation and pH control of reversed supramolecular chirality in insulin fibrils by vibrational circular dichroism. <i>Chemical Communications</i> , 2010 , 46, 7154-6	5.8	109
197	Is supramolecular filament chirality the underlying cause of major morphology differences in amyloid fibrils?. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2302-12	16.4	103
196	Blood species identification for forensic purposes using Raman spectroscopy combined with advanced statistical analysis. <i>Analytical Chemistry</i> , 2009 , 81, 7773-7	7.8	101

195	Discriminant analysis of Raman spectra for body fluid identification for forensic purposes. <i>Sensors</i> , 2010 , 10, 2869-84	3.8	97
194	Photoswitchable Spirobenzopyran- Based Photochemically Controlled Photonic Crystals. <i>Advanced Functional Materials</i> , 2005 , 15, 1401-1406	15.6	95
193	Raman spectroscopy in forensic analysis: identification of cocaine and other illegal drugs of abuse. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 28-38	2.3	95
192	Forensic body fluid identification: the Raman spectroscopic signature of saliva. <i>Analyst, The</i> , 2010 , 135, 512-7	5	91
191	Both Ca ²⁺ and Zn ²⁺ are essential for S100A12 protein oligomerization and function. <i>BMC Biochemistry</i> , 2009 , 10, 11	4.8	88
190	Raman spectroscopic signature of semen and its potential application to forensic body fluid identification. <i>Forensic Science International</i> , 2009 , 193, 56-62	2.6	87
189	Raman spectroscopy of blood serum for Alzheimer's disease diagnostics: specificity relative to other types of dementia. <i>Journal of Biophotonics</i> , 2015 , 8, 584-96	3.1	86
188	Transient UV Raman spectroscopy finds no crossing barrier between the peptide alpha-helix and fully random coil conformation. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2388-92	16.4	84
187	Vibrational spectroscopy: recent developments to revolutionize forensic science. <i>Analytical Chemistry</i> , 2015 , 87, 306-27	7.8	78
186	Photochemically Controlled Photonic Crystals. <i>Advanced Functional Materials</i> , 2003 , 13, 774-780	15.6	78
185	Steady-state and transient ultraviolet resonance Raman spectrometer for the 193-270 nm spectral region. <i>Applied Spectroscopy</i> , 2005 , 59, 1541-52	3.1	77
184	2D correlation deep UV resonance raman spectroscopy of early events of lysozyme fibrillation: kinetic mechanism and potential interpretation pitfalls. <i>Journal of the American Chemical Society</i> , 2008 , 130, 309-17	16.4	76
183	Deep-UV Raman spectrometer tunable between 193 and 205 nm for structural characterization of proteins. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 381, 431-7	4.4	73
182	Normal and reversed supramolecular chirality of insulin fibrils probed by vibrational circular dichroism at the protofilament level of fibril structure. <i>Biophysical Journal</i> , 2012 , 103, 522-531	2.9	72
181	Photoisomerization of a Capped Azobenzene in Solution Probed by Ultrafast Time-Resolved Electronic Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 9161-9166	2.8	72
180	Spontaneous inter-conversion of insulin fibril chirality. <i>Chemical Communications</i> , 2012 , 48, 2837-9	5.8	69
179	Multidimensional Raman spectroscopic signatures as a tool for forensic identification of body fluid traces: a review. <i>Applied Spectroscopy</i> , 2011 , 65, 1223-32	3.1	69
178	Forensic body fluid identification and differentiation by Raman spectroscopy. <i>Forensic Chemistry</i> , 2016 , 1, 31-38	2.8	68

177	Discrimination of human and animal blood traces via Raman spectroscopy. <i>Forensic Science International</i> , 2014 , 238, 91-5	2.6	66
176	Carbon structure in nanodiamonds elucidated from Raman spectroscopy. <i>Carbon</i> , 2017 , 121, 322-329	10.4	65
175	Raman spectroscopy of blood for species identification. <i>Analytical Chemistry</i> , 2014 , 86, 11628-33	7.8	63
174	Probing the cross-beta core structure of amyloid fibrils by hydrogen-deuterium exchange deep ultraviolet resonance Raman spectroscopy. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11002-3	16.4	63
173	Surface characterization of insulin protofilaments and fibril polymorphs using tip-enhanced Raman spectroscopy (TERS). <i>Biophysical Journal</i> , 2014 , 106, 263-71	2.9	60
172	Langmuir monolayers and Langmuir-Blodgett multilayers containing macrocyclic ionophores. <i>Advanced Materials</i> , 1996 , 8, 615-630	24	60
171	Raman spectroscopic analysis of gunshot residue offering great potential for caliber differentiation. <i>Analytical Chemistry</i> , 2012 , 84, 4334-9	7.8	59
170	Structural variations in the cross-beta core of amyloid beta fibrils revealed by deep UV resonance Raman spectroscopy. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6324-8	16.4	58
169	Probing a fibrillation nucleus directly by deep ultraviolet Raman spectroscopy. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6972-3	16.4	58
168	Hen egg white lysozyme fibrillation: a deep-UV resonance Raman spectroscopic study. <i>Journal of Biophotonics</i> , 2008 , 1, 215-29	3.1	58
167	Photoresponsive Azobenzene Photonic Crystals. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 12637-12639	3.4	58
166	A Raman "spectroscopic clock" for bloodstain age determination: the first week after deposition. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 3993-4001	4.4	58
165	Disulfide bridges remain intact while native insulin converts into amyloid fibrils. <i>PLoS ONE</i> , 2012 , 7, e36989	3.9	56
164	Multidimensional Raman spectroscopic signature of sweat and its potential application to forensic body fluid identification. <i>Analytica Chimica Acta</i> , 2012 , 718, 78-83	6.6	55
163	The first step of hen egg white lysozyme fibrillation, irreversible partial unfolding, is a two-state transition. <i>Protein Science</i> , 2007 , 16, 815-32	6.3	55
162	Raman spectroscopic signature of vaginal fluid and its potential application in forensic body fluid identification. <i>Forensic Science International</i> , 2012 , 216, 44-8	2.6	54
161	Identification of species' blood by attenuated total reflection (ATR) Fourier transform infrared (FT-IR) spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 7435-42	4.4	52
160	Quantitative methods for structural characterization of proteins based on deep UV resonance Raman spectroscopy. <i>Methods</i> , 2010 , 52, 23-37	4.6	52

159	Advanced statistical and numerical methods for spectroscopic characterization of protein structural evolution. <i>Chemical Reviews</i> , 2010 , 110, 5692-713	68.1	52
158	Surface enhanced Raman spectroscopy: A review of recent applications in forensic science. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 197, 255-260	4.4	51
157	Towards development of a novel universal medical diagnostic method: Raman spectroscopy and machine learning. <i>Chemical Society Reviews</i> , 2020 , 49, 7428-7453	58.5	51
156	Potential application of Raman spectroscopy for determining burial duration of skeletal remains. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 2511-8	4.4	50
155	Donor-Acceptor Species Derived from Functionalised 1,3-Dithiol-2-ylidene Anthracene Donor Units Exhibiting Photoinduced Electron Transfer Properties: Spectroscopic, Electrochemical, X-Ray Crystallographic and Theoretical Studies. <i>Chemistry - A European Journal</i> , 1998 , 4, 2580-2592	4.8	50
154	Nanosecond UV Resonance Raman Examination of Initial Steps in α -Helix Secondary Structure Evolution. <i>Journal of the American Chemical Society</i> , 1999 , 121, 4076-4077	16.4	50
153	Surface Enhanced Raman Spectroscopy for Single Molecule Protein Detection. <i>Scientific Reports</i> , 2019 , 9, 12356	4.9	49
152	Bloodstains, paintings, and drugs: Raman spectroscopy applications in forensic science. <i>Forensic Chemistry</i> , 2018 , 8, 111-133	2.8	49
151	What can Raman spectroscopy do for criminalistics?. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 39-50	2.3	49
150	Circumventing substrate interference in the Raman spectroscopic identification of blood stains. <i>Forensic Science International</i> , 2013 , 231, 157-66	2.6	48
149	Advanced statistical analysis of Raman spectroscopic data for the identification of body fluid traces: semen and blood mixtures. <i>Forensic Science International</i> , 2012 , 222, 259-65	2.6	48
148	Structural differences between amyloid beta oligomers. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 477, 700-705	3.4	47
147	Raman spectroscopy coupled with advanced statistics for differentiating menstrual and peripheral blood. <i>Journal of Biophotonics</i> , 2014 , 7, 59-67	3.1	46
146	Attenuated total reflectance-FT-IR spectroscopy for gunshot residue analysis: potential for ammunition determination. <i>Analytical Chemistry</i> , 2013 , 85, 7287-94	7.8	46
145	Forensic identification of blood in the presence of contaminations using Raman microspectroscopy coupled with advanced statistics: effect of sand, dust, and soil. <i>Journal of Forensic Sciences</i> , 2013 , 58, 1141-8	1.8	45
144	Lysozyme fibrillation: deep UV Raman spectroscopic characterization of protein structural transformation. <i>Biopolymers</i> , 2005 , 79, 58-61	2.2	44
143	Spatially resolved spectroscopic differentiation of hydrophilic and hydrophobic domains on individual insulin amyloid fibrils. <i>Scientific Reports</i> , 2016 , 6, 33575	4.9	44
142	Two-dimensional correlation Raman spectroscopy for characterizing protein structure and dynamics. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 1749-1758	2.3	43

141	Comparison between UV Raman and circular dichroism detection of short alpha helices in bombolitin III. <i>Biochemistry</i> , 2002 , 41, 1893-6	3.2	43
140	Forensic Hair Differentiation Using Attenuated Total Reflection Fourier Transform Infrared (ATR FT-IR) Spectroscopy. <i>Applied Spectroscopy</i> , 2016 , 70, 1109-17	3.1	42
139	Bilayer fibril formation by genetically engineered polypeptides: preparation and characterization. <i>Biomacromolecules</i> , 2006 , 7, 1104-11	6.9	42
138	Molecular design, photoisomerization and complexation of crown ether styryl dyes. <i>Chemical Physics Letters</i> , 1991 , 185, 455-460	2.5	40
137	Predicting the time of the crime: Bloodstain aging estimation for up to two years. <i>Forensic Chemistry</i> , 2017 , 5, 1-7	2.8	39
136	Sex Determination Based on Raman Spectroscopy of Saliva Traces for Forensic Purposes. <i>Analytical Chemistry</i> , 2016 , 88, 12489-12493	7.8	39
135	Race Differentiation by Raman Spectroscopy of a Bloodstain for Forensic Purposes. <i>Analytical Chemistry</i> , 2016 , 88, 7453-6	7.8	39
134	UV Resonance Raman Study of the Spatial Dependence of α -Helix Unfolding <i>Journal of Physical Chemistry A</i> , 2002 , 106, 3621-3624	2.8	39
133	Attenuated total reflectance-FT-IR imaging for rapid and automated detection of gunshot residue. <i>Analytical Chemistry</i> , 2014 , 86, 3389-96	7.8	37
132	Raman microspectroscopic chemical mapping and chemometric classification for the identification of gunshot residue on adhesive tape. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 4595-9	4.4	37
131	RuvbL1 and RuvbL2 enhance aggresome formation and disaggregate amyloid fibrils. <i>EMBO Journal</i> , 2015 , 34, 2363-82	13	37
130	Raman spectroscopy for forensic purposes: Recent applications for serology and gunshot residue analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 103, 215-222	14.6	37
129	Raman spectroscopy and chemometrics: A potential universal method for diagnosing cancer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 219, 463-487	4.4	36
128	Pathogenic serum amyloid A 1.1 shows a long oligomer-rich fibrillation lag phase contrary to the highly amyloidogenic non-pathogenic SAA2.2. <i>Journal of Biological Chemistry</i> , 2013 , 288, 2744-55	5.4	36
127	Advanced statistical analysis and discrimination of gunshot residue implementing combined Raman and FT-IR data. <i>Analytical Methods</i> , 2013 , 5, 6292	3.2	34
126	Reversible thermal denaturation of a 60-kDa genetically engineered beta-sheet polypeptide. <i>Biophysical Journal</i> , 2006 , 91, 3805-18	2.9	33
125	Crown-annelated 9,10-bis(1,3-dithiol-2-ylidene)-9,10-dihydroanthracene derivatives: a new efficient transducer in the electrochemical and spectroscopic monitoring of metal complexation. <i>Chemical Communications</i> , 2000 , 295-296	5.8	33
124	Synthesis and spectroscopic studies of novel photochromic benzodithiacrown ethers and their complexes. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1996 , 1441		32

123	A poly(butyl methacrylate)/graphene oxide/TiO ₂ nanocomposite coating with superior corrosion protection for AZ31 alloy in chloride solution. <i>Chemical Engineering Journal</i> , 2019 , 361, 485-498	14.7	32
122	Differentiation of human blood from animal blood using Raman spectroscopy: A survey of forensically relevant species. <i>Forensic Science International</i> , 2018 , 282, 204-210	2.6	32
121	Determining Gender by Raman Spectroscopy of a Bloodstain. <i>Analytical Chemistry</i> , 2017 , 89, 1486-1492	7.8	31
120	Mechanism of fibril formation by a 39-residue peptide (PAPf39) from human prostatic acidic phosphatase. <i>Biochemistry</i> , 2009 , 48, 11582-91	3.2	30
119	Crown-Annulated 9,10-Bis(1,3-dithiol-2-ylidene)-9,10-dihydroanthracene Derivatives as Cation Sensors: Synthesis, X-ray Crystal Structures, Voltammetric and Spectroscopic Monitoring of Metal Complexation. <i>European Journal of Organic Chemistry</i> , 2001 , 2001, 933-940	3.2	30
118	Ultraviolet Resonance Raman Spectroscopic Markers for Protein Structure and Dynamics. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 103, 223-229	14.6	29
117	Differentiating Donor Age Groups Based on Raman Spectroscopy of Bloodstains for Forensic Purposes. <i>ACS Central Science</i> , 2018 , 4, 862-867	16.8	29
116	Genetic engineering combined with deep UV resonance Raman spectroscopy for structural characterization of amyloid-like fibrils. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5852-3	16.4	29
115	Latent variable analysis of Raman spectra for structural characterization of proteins. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006 , 102, 46-61	2.1	29
114	Supramolecular chirality in peptide microcrystals. <i>Chemical Communications</i> , 2015 , 51, 89-92	5.8	28
113	A Cation-Specific, Light-Controlled Transient Chromoionophore Based on a Benzothiazolium Styryl Azacrown Ether Dye. <i>Journal of the American Chemical Society</i> , 1997 , 119, 3456-3461	16.4	28
112	Levels of supramolecular chirality of polyglutamine aggregates revealed by vibrational circular dichroism. <i>FEBS Letters</i> , 2013 , 587, 1638-43	3.8	27
111	Quantification of cocaine in ternary mixtures using partial least squares regression applied to Raman and Fourier transform infrared spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1732-1743	3.3	27
110	Hydrogen sulfide inhibits amyloid formation. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1265-74	3.4	27
109	Toward Locard's Exchange Principle: Recent Developments in Forensic Trace Evidence Analysis. <i>Analytical Chemistry</i> , 2019 , 91, 637-654	7.8	26
108	Amyloid fibrils are "alive": spontaneous refolding from one polymorph to another. <i>Chemical Communications</i> , 2010 , 46, 4249-51	5.8	25
107	Photocontrol of Cation Complexation with a Benzothiazolium Styryl Azacrown Ether Dye: Spectroscopic Studies on Picosecond and Kilosecond Time Scales. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 4966-4972	2.8	25
106	In Situ Identification of Semen Stains on Common Substrates via Raman Spectroscopy,. <i>Journal of Forensic Sciences</i> , 2015 , 60, 595-604	1.8	24

105	Raman spectroscopic study of the tautomeric composition of adenine in water. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 10600-9	2.8	24
104	Crown-annulated tetrathiafulvalenes: synthesis of new functionalised derivatives and spectroscopic and electrochemical studies of metal complexation. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1996 , 1587-1593		24
103	Aggregate Formation in Langmuir-Blodgett Films of an Amphiphilic Benzothiazolium Styryl Chromoionophore. <i>Langmuir</i> , 1994 , 10, 4185-4189	4	24
102	Spectroscopic Discrimination of Bone Samples from Various Species. <i>American Journal of Analytical Chemistry</i> , 2012 , 03, 161-167	0.7	24
101	Race Differentiation Based on Raman Spectroscopy of Semen Traces for Forensic Purposes. <i>Analytical Chemistry</i> , 2017 , 89, 4344-4348	7.8	23
100	Screening for Alzheimer's Disease Using Saliva: A New Approach Based on Machine Learning and Raman Hyperspectroscopy. <i>Journal of Alzheimer's Disease</i> , 2019 , 71, 1351-1359	4.3	22
99	Structural Organization of Insulin Fibrils Based on Polarized Raman Spectroscopy: Evaluation of Existing Models. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11312-20	16.4	22
98	Differentiation of hair using ATR FT-IR spectroscopy: A statistical classification of dyed and non-dyed hairs. <i>Forensic Chemistry</i> , 2017 , 6, 1-9	2.8	22
97	Benzothiazolium styryl dyes containing a monoazacrownether: Protonation and complexation with metal and ammonium cations in solution. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997 , 93, 1551-1558		22
96	Structural and Mechanical Properties of Amyloid Beta Fibrils: A Combined Experimental and Theoretical Approach. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2758-64	6.4	22
95	Ultraviolet resonance Raman spectroscopy for the detection of cocaine in oral fluid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 188, 338-340	4.4	21
94	Current research on smoking pipe residues. <i>Journal of Archaeological Science</i> , 2012 , 39, 1951-1959	2.9	21
93	Phenotype Profiling for Forensic Purposes: Determining Donor Sex Based on Fourier Transform Infrared Spectroscopy of Urine Traces. <i>Analytical Chemistry</i> , 2019 , 91, 6288-6295	7.8	20
92	Multivariate Statistical Analysis of Surface Enhanced Raman Spectra of Human Serum for Alzheimer's Disease Diagnosis. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3256	2.6	20
91	A modified Raman multidimensional spectroscopic signature of blood to account for the effect of laser power. <i>Forensic Science International</i> , 2014 , 240, 88-94	2.6	20
90	Isolating toxic insulin amyloid reactive species that lack β -sheets and have wide pH stability. <i>Biophysical Journal</i> , 2011 , 100, 2792-800	2.9	20
89	Complex Formation of an Amphiphilic Benzothiazolium Styryl Chromoionophore with Metal Cations in a Monolayer at the Air-Water Interface. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 4176-4180		19
88	Rapid Filament Supramolecular Chirality Reversal of HET-s (218-289) Prion Fibrils Driven by pH Elevation. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 8521-5	3.4	18

87	Detection and structural characterization of insulin prefibrillar oligomers using surface enhanced Raman spectroscopy. <i>Biotechnology Progress</i> , 2014 , 30, 488-95	2.8	18
86	Fibrillation mechanism of a model intrinsically disordered protein revealed by 2D correlation deep UV resonance Raman spectroscopy. <i>Biomacromolecules</i> , 2012 , 13, 1503-9	6.9	18
85	Langmuir-Blodgett Films of Chromoionophores Containing a Crown Ether Ring: Complex Formation with Ag ⁺ Cations in Water. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 9601-9605		18
84	Amyloid fibrils: the eighth wonder of the world in protein folding and aggregation. <i>Biophysical Journal</i> , 2014 , 106, 1433-5	2.9	17
83	Identification of individual red blood cells by Raman microspectroscopy for forensic purposes: in search of a limit of detection. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 287-293	4.4	17
82	Dissecting structure of prion amyloid fibrils by hydrogen-deuterium exchange ultraviolet Raman spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7926-30	3.4	17
81	Rapid degradation kinetics of amyloid fibrils under mild conditions by an archaeal chaperonin. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 422, 97-102	3.4	17
80	Origin of enhanced VCD in amyloid fibril spectra: Effect of deuteration and pH. <i>Chirality</i> , 2017 , 29, 469-475	4.5	16
79	Thermal Stabilization of Enzymes with Molecular Brushes. <i>ACS Catalysis</i> , 2017 , 7, 8675-8684	13.1	16
78	A human CCT5 gene mutation causing distal neuropathy impairs hexadecamer assembly in an archaeal model. <i>Scientific Reports</i> , 2014 , 4, 6688	4.9	16
77	Beta-sheet folding of 11-kDa fibrillogenic polypeptide is completely aggregation driven. <i>Biopolymers</i> , 2007 , 86, 261-4	2.2	16
76	Photochromic crown ether complexes: A Raman spectroscopic study. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1992 , 48, 799-809		16
75	A Raman spectroscopic study of indolinium steryl dyes. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1992 , 48, 931-937		16
74	Polarized Raman Spectroscopy for Determining the Orientation of di-D-phenylalanine Molecules in a Nanotube. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 1056-1062	2.3	16
73	Phenotype profiling for forensic purposes: Nondestructive potentially on scene attenuated total reflection Fourier transform-infrared (ATR FT-IR) spectroscopy of bloodstains. <i>Forensic Chemistry</i> , 2019 , 16, 100176	2.8	15
72	UV resonance Raman study of angiotensin II conformation in nonaqueous environments: lipid micelles and acetonitrile. <i>Biopolymers</i> , 2000 , 57, 55-63	2.2	14
71	Raman spectroscopy for forensic bloodstain identification: Method validation vs. environmental interferences. <i>Forensic Chemistry</i> , 2019 , 16, 100175	2.8	13
70	Polarized Raman Spectroscopy of Aligned Insulin Fibrils. <i>Journal of Raman Spectroscopy</i> , 2014 , 45, 665-671	7.3	13

69	The impact of protein disulfide bonds on the amyloid fibril morphology. <i>International Journal of Biomedical Nanoscience and Nanotechnology</i> , 2011 , 2, 167-176	0.2	12
68	Direct Observation of Photocontrolled Ion Release: A Nanosecond Time-Resolved Spectroscopic Study of a Benzothiazolium Styryl Azacrown Ether Dye Complexed with Barium. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 7371-7378	2.8	12
67	Raman spectroscopy and machine learning for biomedical applications: Alzheimer's disease diagnosis based on the analysis of cerebrospinal fluid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 248, 119188	4.4	12
66	Analysis of individual red blood cells for Celiac disease diagnosis. <i>Talanta</i> , 2021 , 221, 121642	6.2	12
65	Universal detection of body fluid traces in situ with Raman hyperspectroscopy for forensic purposes: Evaluation of a new detection algorithm (HAMAND) using semen samples. <i>Journal of Raman Spectroscopy</i> , 2019 , 50, 1147-1153	2.3	11
64	Discrimination between human and animal blood by attenuated total reflection Fourier transform-infrared spectroscopy. <i>Communications Chemistry</i> , 2020 , 3,	6.3	11
63	Acidic pH promotes oligomerization and membrane insertion of the BclXL apoptotic repressor. <i>Archives of Biochemistry and Biophysics</i> , 2012 , 528, 32-44	4.1	11
62	Charge distribution and amyloid fibril formation: insights from genetically engineered model systems. <i>Biomacromolecules</i> , 2010 , 11, 1721-6	6.9	11
61	A Raman spectroscopic study of photochromic benzothiazolium dyes. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1993 , 49, 1055-1063		11
60	Multiple bicyclic diamide-lutetium complexes in solution: chemometric analysis of deep-UV Raman spectroscopic data. <i>Inorganic Chemistry</i> , 2006 , 45, 3606-12	5.1	10
59	UVR spectroscopic studies of valinomycin complex formation in different solvents. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005 , 61, 19-26	4.4	10
58	Ion-selective langmuir blodgett films of a chromoionophore. <i>Advanced Materials for Optics and Electronics</i> , 1995 , 5, 137-143		10
57	LangmuirBlodgett films of a benzothiazolium dye containing a crown ether ring. <i>Advanced Materials for Optics and Electronics</i> , 1994 , 4, 225-232		10
56	Photochemistry of an Amphiphilic Benzothiazolium Styryl Chromoionophore Organized in Langmuir-Blodgett Films. <i>Langmuir</i> , 1994 , 10, 4190-4194	4	10
55	A universal test for the forensic identification of all main body fluids including urine. <i>Forensic Chemistry</i> , 2020 , 20, 100247	2.8	10
54	Crime clock Analytical studies for approximating time since deposition of bloodstains. <i>Forensic Chemistry</i> , 2020 , 19, 100248	2.8	10
53	Raman spectroscopic method for semen identification: Azoospermia. <i>Talanta</i> , 2019 , 194, 385-389	6.2	10
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