Ewan W Blanch

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2768963/publications.pdf

Version: 2024-02-01

121 papers	5,156 citations	81900 39 h-index	98798 67 g-index
124 all docs	124 docs citations	124 times ranked	4625 citing authors

#	Article	IF	Citations
1	Regioselective pyrrolizidine bis-spirooxindoles as efficient anti-amyloidogenic agents. European Journal of Medicinal Chemistry, 2022, 240, 114566.	5.5	4
2	Chemoselective [3 + 2] annulation of oxime acetate with 2-aryl-3-ethoxycarbonyl-pyrroline-4,5-dione: an entry to pyrrolo[2,3-b]pyrrole derivatives. Organic and Biomolecular Chemistry, 2021, 19, 7875-7882.	2.8	1
3	Insight into the Mechanism of Action and Peptideâ€Membrane Interactions of Aibâ€Rich Peptides: Multitechnique Experimental and Theoretical Analysis. ChemBioChem, 2021, 22, 1656-1667.	2.6	11
4	Natural spirocyclic alkaloids and polyphenols as multi target dementia leads. Bioorganic and Medicinal Chemistry, 2021, 43, 116270.	3.0	18
5	Spatially offset Raman spectroscopy: A convenient and rapid tool to distinguish cheese made with milks from different animal species. Journal of Raman Spectroscopy, 2021, 52, 1705-1711.	2.5	7
6	Microwave-assisted rapid synthesis of spirooxindole-pyrrolizidine analogues and their activity as anti-amyloidogenic agents. Bioorganic Chemistry, 2021, 114, 105128.	4.1	23
7	Delivery of antimicrobial peptides to model membranes by cubosome nanocarriers. Journal of Colloid and Interface Science, 2021, 600, 14-22.	9.4	10
8	Detection of Biomarkers Relating to Quality and Differentiation of Some Commercially Significant Whole Fish Using Spatially Off-Set Raman Spectroscopy. Molecules, 2020, 25, 3776.	3.8	10
9	Surface Enhanced Raman Spectroscopy in environmental analysis, monitoring and assessment. Science of the Total Environment, 2020, 720, 137601.	8.0	111
10	Differentiating various beef cuts using spatially offset Raman spectroscopy. Journal of Raman Spectroscopy, 2020, 51, 711-716.	2.5	12
11	Solution Structure of Mannobioses Unravelled by Means of Raman Optical Activity. ChemPhysChem, 2019, 20, 695-705.	2.1	16
12	Quantifying factors related to urban metal contamination in vegetable garden soils of the west and north of Melbourne, Australia. Environmental Pollution, 2019, 251, 193-202.	7.5	15
13	Investigation of chemical composition of meat using spatially off-set Raman spectroscopy. Analyst, The, 2019, 144, 2618-2627.	3.5	22
14	Effects of sulfation and the environment on the structure of chondroitin sulfate studiedviaRaman optical activity. Physical Chemistry Chemical Physics, 2019, 21, 7367-7377.	2.8	21
15	Extraction of keratin from waste chicken feathers using sodium sulfide and l-cysteine. Process Biochemistry, 2019, 82, 205-214.	3.7	41
16	Antibacterial Properties of Graphene Oxideâ€“Copper Oxide Nanoparticle Nanocomposites. ACS Applied Bio Materials, 2019, 2, 5687-5696.	4.6	57
17	Lactoferrin: Structure, function, denaturation and digestion. Critical Reviews in Food Science and Nutrition, 2019, 59, 580-596.	10.3	255
18	Resveratrolâ€™s Hidden Hand: A Route to the Optical Detection of Biomolecular Binding. Journal of Physical Chemistry B, 2018, 122, 2841-2850.	2.6	3

#	Article	IF	Citations
19	Design and characterization of sustainable bioâ€composites from waste chicken feather keratin and thermoplastic polyurethane. Polymer Composites, 2018, 39, E620.	4.6	15
20	Predicted environmental concentration and fate of the top 10 most dispensed Australian prescription pharmaceuticals. Environmental Science and Pollution Research, 2018, 25, 10966-10976.	5.3	15
21	Initial Steps of Amyloidogenic Peptide Assembly Revealed by Coldâ€Ion Spectroscopy. Angewandte Chemie - International Edition, 2018, 57, 213-217.	13.8	10
22	Raman Optical Activity. , 2018, , 249-291.		9
23	Optically Active Vibrational Spectroscopy of Î±â€Aminoisobutyric Acid Foldamers in Organic Solvents and Phospholipid Bilayers. Chemistry - A European Journal, 2018, 24, 9399-9408.	3.3	18
24	Drying and denaturation characteristics of three forms of bovine lactoferrin. Drying Technology, 2017, 35, 606-615.	3.1	15
25	Quantitative detection of codeine in human plasma using surface-enhanced Raman scattering via adaptation of the isotopic labelling principle. Analyst, The, 2017, 142, 1099-1105.	3.5	29
26	Time-Domain THz Spectroscopy Reveals Coupled Proteinâ€“Hydration Dielectric Response in Solutions of Native and Fibrils of Human Lysozyme. Journal of Physical Chemistry B, 2017, 121, 4810-4816.	2.6	32
27	Raman optical activity of tetra-alanine in the poly(<scp>l</scp>-proline) II type peptide conformation. Physical Chemistry Chemical Physics, 2017, 19, 2078-2086.	2.8	17
28	Preparation and study of digestion behavior of lactoferrin-sodium alginate complex coacervates. Journal of Functional Foods, 2017, 37, 97-106.	3.4	35
29	Towards improved quantitative analysis using surface-enhanced Raman scattering incorporating internal isotope labelling. Analytical Methods, 2017, 9, 6636-6644.	2.7	18
30	Characteristics of bovine lactoferrin powders produced through spray and freeze drying processes. International Journal of Biological Macromolecules, 2017, 95, 985-994.	7.5	41
31	Mild thermal treatment and in-vitro digestion of three forms of bovine lactoferrin: Effects on functional properties. International Dairy Journal, 2017, 64, 22-30.	3.0	42
32	Raman optical activity of a flavone C-diglycoside: Aqueous solution conformations and absolute configuration. Vibrational Spectroscopy, 2017, 91, 136-140.	2.2	6
33	Surface-Enhanced Raman Optical Activity (SEROA). , 2017, , 376-382.		3
34	Infrared Spectroscopy-Based Metabolomic Analysis for the Detection of Preharvest Sprouting in Grain. Cereal Chemistry, 2016, 93, 444-449.	2.2	8
35	The computational prediction of Raman and ROA spectra of charged histidine tautomers in aqueous solution. Physical Chemistry Chemical Physics, 2016, 18, 27377-27389.	2.8	4
36	Secondary Structure and Glycosylation of Mucus Glycoproteins by Raman Spectroscopies. Analytical Chemistry, 2016, 88, 11609-11615.	6.5	38

#	Article	IF	Citations
37	Determination of Protein Secondary Structure from Infrared Spectra Using Partial Least-Squares Regression. Biochemistry, 2016, 55, 3794-3802.	2.5	35
38	Distinguishing Epimers Through Raman Optical Activity. Journal of Physical Chemistry A, 2016, 120, 1908-1916.	2.5	16
39	Structure and Absolute Configuration of Diterpenoids from Hymenaea stigonocarpa. Journal of Natural Products, 2015, 78, 1451-1455.	3.0	20
40	Conformational dynamics of carbohydrates: Raman optical activity of <scp>d</scp>-glucuronic acid and N-acetyl-<scp>d</scp>-glucosamine using a combined molecular dynamics and quantum chemical approach. Physical Chemistry Chemical Physics, 2015, 17, 6016-6027.	2.8	38
41	Calculation of Raman optical activity spectra for vibrational analysis. Analyst, The, 2015, 140, 2944-2956.	3.5	29
42	Ribifolin, an Orbitide from Jatropha ribifolia, and Its Potential Antimalarial Activity. Journal of Natural Products, 2015, 78, 374-380.	3.0	39
43	Recent advances in the use of vibrational chiroptical spectroscopic methods for stereochemical characterization of natural products. Natural Product Reports, 2015, 32, 1280-1302.	10.3	154
44	Through-space transfer of chiral information mediated by a plasmonic nanomaterial. Nature Chemistry, 2015, 7, 591-596.	13.6	105
45	Absolute configuration assignment of an unusual homoisoflavanone from Polygonum ferrugineum using a combination of chiroptical methods. Tetrahedron Letters, 2015, 56, 6142-6144.	1.4	12
46	The Raman optical activity of Î²-<scp>d</scp>-xylose: where experiment and computation meet. Physical Chemistry Chemical Physics, 2015, 17, 21799-21809.	2.8	32
47	Carbohydrate Secondary and Tertiary Structure Using Raman Spectroscopy. , 2015, , 1181-1218.		1
48	Raman Optical Activity of Biological Samples. Challenges and Advances in Computational Chemistry and Physics, 2014, , 61-81.	0.6	3
49	Synthesis of a heparin-related GlcNâ€“IdoA sulfation-site variable disaccharide library and analysis by Raman and ROA spectroscopy. Carbohydrate Research, 2014, 400, 44-53.	2.3	17
50	Investigation of DMSOâ€Induced Conformational Transitions in Human Serum Albumin Using Twoâ€Dimensional Raman Optical Activity Spectroscopy. Chirality, 2014, 26, 497-501.	2.6	18
51	Reorganisation of the Salivary Mucin Network by Dietary Components: Insights from Green Tea Polyphenols. PLoS ONE, 2014, 9, e108372.	2.5	53
52	Carbohydrate Secondary and Tertiary Structure Using Raman Spectroscopy. , 2014, , 1-31.		0
53	Selective DMSO-induced conformational changes in proteins from Raman optical activity. Physical Chemistry Chemical Physics, 2013, 15, 20147.	2.8	51
54	Raman and ROA Spectra of (âˆ')- and (+)-2-Br-Hexahelicene: Experimental and DFT Studies of a Ï€-Conjugated Chiral System. Journal of Physical Chemistry B, 2013, 117, 2221-2230.	2.6	42

#	Article	IF	Citations
55	Recent Developments In Raman Optical Activity Calculations On Biomolecules (Mini-review). Current Physical Chemistry, 2013, 3, 140-150.	0.2	7
56	Phosphorylation Detection and Characterization in Ribonucleotides Using Raman and Raman Optical Activity(ROA) Spectroscopies. Applied Spectroscopy, 2012, 66, 289-293.	2.2	5
57	Enhancing Surface Enhanced Raman Scattering (SERS) Detection of Propranolol with Multiobjective Evolutionary Optimization. Analytical Chemistry, 2012, 84, 7899-7905.	6.5	35
58	Polyglutamine Aggregate Structure In Vitro and In Vivo; New Avenues for Coherent Anti-Stokes Raman Scattering Microscopy. PLoS ONE, 2012, 7, e40536.	2.5	14
59	SERS study of methylated and nonmethylated ribonucleosides and the effect of aggregating agents. Journal of Raman Spectroscopy, 2012, 43, 187-195.	2.5	12
60	In situ analysis of chiral components of pichtae essential oil by means of ROA spectroscopy: experimental and theoretical Raman and ROA spectra of bornyl acetate. Journal of Raman Spectroscopy, 2012, 43, 286-293.	2.5	10
61	Raman Optical Activity Spectra and Conformational Elucidation of Chiral Drugs. The Case of the Antiangiogenic Aeroplysinin-1. Journal of Physical Chemistry A, 2011, 115, 2752-2755.	2.5	22
62	Detecting the Early Onset of Shear-Induced Fibril Formation of Insulin in situ. Journal of Physical Chemistry B, 2011, 115, 2617-2626.	2.6	17
63	Calculation of Raman Optical Activity Spectra of Methyl-Î²-<scp>d</scp>-Glucose Incorporating a Full Molecular Dynamics Simulation of Hydration Effects. Journal of the American Chemical Society, 2011, 133, 4991-4997.	13.7	110
64	Use of a hydrogel polymer for reproducible surface enhanced Raman optical activity (SEROA). Chemical Communications, 2011, 47, 4754.	4.1	43
65	Determination of protein fold class from Raman or Raman optical activity spectra using random forests. Protein Science, 2011, 20, 1668-1674.	7.6	17
66	Reduced Sweetness of a Monellin (MNEI) Mutant Results from Increased Protein Flexibility and Disruption of a Distant Poly-(L-Proline) II Helix. Chemical Senses, 2011, 36, 425-434.	2.0	20
67	Spectrophotometric analysis of nucleic acids: oxygenation-dependant hyperchromism of DNA. Analytical and Bioanalytical Chemistry, 2010, 396, 2331-2339.	3.7	19
68	Multiobjective evolutionary optimisation for surface-enhanced Raman scattering. Analytical and Bioanalytical Chemistry, 2010, 397, 1893-1901.	3.7	19
69	A multiâ€component optimisation of experimental parameters for maximising SERS enhancements. Journal of Raman Spectroscopy, 2010, 41, 618-623.	2.5	37
70	pH-induced conformational transitions in Î±-lactalbumin investigated with two-dimensional Raman correlation variance plots and moving windows. Journal of Molecular Structure, 2010, 974, 132-138.	3.6	47
71	Raman Spectroscopic Studies of Structural Changes of Insulin in Controlled Fluid Flows. , 2010, , .		0
72	Using Machine Learning to Predict Protein Structure from Spectral Data. , 2010, , .		0

#	Article	IF	Citations
73	Raman Spectroscopy And Chemometrics To Investigate Time Dependent Physical Changes Of Insulin In Shear Stress Conditions. , 2010, , .		0
74	Time Dependence of SERS Enhancement for Pyrimidine Nucleosides. Journal of Physical Chemistry C, 2010, 114, 7314-7323.	3.1	12
75	A New Route to Carbohydrate Secondary and Tertiary Structure Using Raman Spectroscopy and Raman Optical Activity. Journal of the American Chemical Society, 2010, 132, 10654-10655.	13.7	45
76	Susceptibility of Different Proteins to Flow-Induced Conformational Changes Monitored with Raman Spectroscopy. Biophysical Journal, 2010, 98, 707-714.	0.5	35
77	Accurate Determination of Protein Secondary Structure Content from Raman and Raman Optical Activity Spectra. Analytical Chemistry, 2010, 82, 6347-6349.	6.5	43
78	Raman Optical Activity of Biological Molecules. Biological and Medical Physics Series, 2010, , 153-177.	0.4	3
79	Raman optical activity of an achiral element in a chiral environment. Journal of Raman Spectroscopy, 2009, 40, 1093-1095.	2.5	16
80	Shear-Induced Unfolding of Lysozyme Monitored In Situ. Biophysical Journal, 2009, 96, 4231-4236.	0.5	58
81	Effects and anomalies that can occur in SERS spectra of biological molecules when using a wide range of aggregating agents for hydroxylamine-reduced and citrate-reduced silver colloids. Vibrational Spectroscopy, 2008, 48, 196-201.	2.2	73
82	Investigations of conformational transitions in proteins and RNA using 2DCOS Raman and 2DCOS Raman optical activity spectroscopies. Journal of Molecular Structure, 2008, 883-884, 187-194.	3.6	12
83	Raman and Raman optical activity (ROA) analysis of RNA structural motifs. Vibrational Spectroscopy, 2008, 48, 37-43.	2.2	16
84	Investigation of Polypeptide Conformational Transitions with Two-Dimensional Raman Optical Activity Correlation Analysis, Applying Autocorrelation and Moving Window Approaches. Applied Spectroscopy, 2008, 62, 469-475.	2.2	27
85	Surface enhanced Raman optical activity (SEROA). Chemical Society Reviews, 2008, 37, 980.	38.1	94
86	Raman and Raman optical activity (ROA) analysis of RNA structural motifs in Domain I of the EMCV IRES. Nucleic Acids Research, 2007, 35, 1169-1177.	14.5	59
87	The Band Assignment Parser: A Tool to Identify Band Assignments in Research Publications. Applied Spectroscopy, 2007, 61, 346-347.	2.2	0
88	Quantification of casein phosphorylation with conformational interpretation using Raman spectroscopy. Analyst, The, 2007, 132, 1053.	3.5	28
89	Two-dimensional Raman and Raman optical activity correlation analysis of the Î±-helix-to-disordered transition in poly(l-glutamic acid). Analyst, The, 2007, 132, 468-479.	3.5	50
90	Raman optical activity. , 2006, , 545-594.		4

#	Article	IF	Citations
91	Application of two-dimensional correlation analysis to Raman optical activity. Journal of Molecular Structure, 2006, 799, 61-71.	3.6	35
92	Potential pitfalls concerning visualization of the 2D results. Journal of Molecular Structure, 2006, 799, 253-258.	3.6	22
93	Two-dimensional correlation analysis of Raman optical activity data on the Î±-helix-to-Î²-sheet transition in poly(L-lysine). Molecular Physics, 2006, 104, 1429-1445.	1.7	50
94	A Simple Approach to Normalization for Spectroscopic Data Mining. Applied Spectroscopy, 2005, 59, 542-544.	2.2	4
95	Structural characterization of proteins and viruses using Raman optical activity. Vibrational Spectroscopy, 2004, 35, 87-92.	2.2	46
96	A Study of Î±-Helix Hydration in Polypeptides, Proteins, and Viruses Using Vibrational Raman Optical Activity. Journal of the American Chemical Society, 2004, 126, 8181-8188.	13.7	123
97	Vibrational Raman Optical Activity Characterization of Poly(l-proline) II Helix in Alanine Oligopeptides. Journal of the American Chemical Society, 2004, 126, 5076-5077.	13.7	139
98	Raman Optical Activity Demonstrates Poly(l-proline) II Helix in the N-terminal Region of the Ovine Prion Protein: Implications for Function and Misfunction. Journal of Molecular Biology, 2004, 343, 467-476.	4.2	77
99	Raman optical activity comes of age. Molecular Physics, 2004, 102, 731-744.	1.7	193
100	A New Perspective on Î²-Sheet Structures Using Vibrational Raman Optical Activity:Â From Poly(l-lysine) to the Prion Protein. Journal of the American Chemical Society, 2003, 125, 10019-10026.	13.7	190
101	Temperature Dependence of the Electrooptical Kerr Effect:â€‰Anisotropic Electric Dipole Polarizabilities of NH3, CH3NH2, (CH3)2NH, and (CH3)3N. Journal of Physical Chemistry A, 2003, 107, 2093-2099.	2.5	4
102	Vibrational Raman optical activity of proteins, nucleic acids, and viruses. Methods, 2003, 29, 196-209.	3.8	106
103	New Insight into the Solution Structures of Wheat Gluten Proteins from Raman Optical Activityâ€. Biochemistry, 2003, 42, 5665-5673.	2.5	78
104	Raman Microscopy and X-ray Diffraction, a Combined Study of Fibrillin-rich Microfibrillar Elasticity. Journal of Biological Chemistry, 2003, 278, 41189-41197.	3.4	26
105	Structure and Behaviour of Proteins, Nucleic Acids and Viruses from Vibrational Raman Optical Activity. Spectroscopy, 2003, 17, 101-126.	0.8	64
106	Solution structures of potato virus X and narcissus mosaic virus from Raman optical activity. Journal of General Virology, 2002, 83, 241-246.	2.9	38
107	Molecular structures of viruses from Raman optical activity. Journal of General Virology, 2002, 83, 2593-2600.	2.9	91
108	Unfolded proteins studied by raman optical activity. Advances in Protein Chemistry, 2002, 62, 51-90.	4.4	101

#	Article	IF	Citations
109	Rayleigh Depolarization Ratios, Kerr Effects, Polarizabilities, and Hyperpolarizabilities of CH3Br, CH2Br2, CHBr3, and CBr4. Comparison of Experimental and ab Initio Calculated Polarizabilities. Journal of Physical Chemistry A, 2002, 106, 4257-4262.	2.5	6
110	A Raman optical activity study of rheomorphism in caseins, synucleins and tau. FEBS Journal, 2002, 269, 148-156.	0.2	214
111	Tryptophan Absolute Stereochemistry in Viral Coat Proteins from Raman Optical Activity. Journal of the American Chemical Society, 2001, 123, 4863-4864.	13.7	67
112	Solution structure of native proteins with irregular folds from Raman optical activity. Biopolymers, 2001, 58, 138-151.	2.4	118
113	Solution structure of native proteins with irregular folds from Raman optical activity. , 2001, 58, 138.		2
114	A comparison of the solution structures of tobacco rattle and tobacco mosaic viruses from Raman optical activity. Journal of General Virology, 2001, 82, 1499-1502.	2.9	31
115	Raman optical activity characterization of native and molten globule states of equine lysozyme: Comparison with hen lysozyme and bovine Î±-lactalbumin. Biopolymers, 2000, 57, 235-248.	2.4	37
116	Solution structure and dynamics of biomolecules from Raman optical activity. Progress in Biophysics and Molecular Biology, 2000, 73, 1-49.	2.9	245
117	Is polyproline II helix the killer conformation? a raman optical activity study of the amyloidogenic prefibrillar intermediate of human lysozyme 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 2000, 301, 553-563.	4.2	214
118	New insight into the pHâ€dependent conformational changes in bovine Î²â€lactoglobulin from Raman optical activity. Protein Science, 1999, 8, 1362-1367.	7.6	43
119	Raman optical activity instrument for studies of biopolymer structure and dynamics. Journal of Raman Spectroscopy, 1999, 30, 815-825.	2.5	66
120	Raman optical activity of filamentous bacteriophages: hydration of Î±-helices 1 1Edited by A. Klug. Journal of Molecular Biology, 1999, 290, 1-7.	4.2	51
121	Cottonâ€"Mouton effect, magnetic anisotropy and charge delocalization of 2,4,6-tris(dimethylamino)-1,3,5-triazine. Comparison with 1,3,5-triazine. Journal of Molecular Structure, 1991, 248, 201-209.	3.6	9