

# Adrian C Williams

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8930793/publications.pdf>

Version: 2024-02-01

89  
papers

7,588  
citations

57631

44  
h-index

51492

86  
g-index

89  
all docs

89  
docs citations

89  
times ranked

7911  
citing authors

#	ARTICLE	IF	CITATIONS
1	Why is Chitosan Mucoadhesive?. <i>Biomacromolecules</i> , 2008, 9, 1837-1842.	2.6	591
2	Solubility parameters as predictors of miscibility in solid dispersions. <i>Journal of Pharmaceutical Sciences</i> , 1999, 88, 1182-1190.	1.6	530
3	Penetration enhancers. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 128-137.	6.6	528
4	Liposomes and skin: From drug delivery to model membranes. <i>European Journal of Pharmaceutical Sciences</i> , 2008, 34, 203-222.	1.9	521
5	Transdermal delivery from eutectic systems: enhanced permeation of a model drug, ibuprofen. <i>Journal of Controlled Release</i> , 1998, 50, 297-308.	4.8	291
6	Oestradiol skin delivery from ultradeformable liposomes: refinement of surfactant concentration. <i>International Journal of Pharmaceutics</i> , 2000, 196, 63-74.	2.6	236
7	Fourier transform Raman and infrared vibrational study of human skin: Assignment of spectral bands. <i>Journal of Raman Spectroscopy</i> , 1992, 23, 641-645.	1.2	217
8	Can drug-bearing liposomes penetrate intact skin?. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 58, 415-429.	1.2	185
9	Interactions of surfactants (edge activators) and skin penetration enhancers with liposomes. <i>International Journal of Pharmaceutics</i> , 2004, 276, 143-161.	2.6	181
10	Exploring the Factors Affecting the Solubility of Chitosan in Water. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 426-433.	1.1	176
11	Oestradiol permeation through human skin and silastic membrane: effects of propylene glycol and supersaturation. <i>Journal of Controlled Release</i> , 1995, 36, 277-294.	4.8	174
12	Fourier transform raman spectroscopy of interactions between the penetration enhancer dimethyl sulfoxide and human stratum corneum. <i>International Journal of Pharmaceutics</i> , 1995, 125, 265-282.	2.6	157
13	Oestradiol permeation across human skin, silastic and snake skin membranes: The effects of ethanol/water co-solvent systems. <i>International Journal of Pharmaceutics</i> , 1995, 116, 101-112.	2.6	146
14	The enhancement index concept applied to terpene penetration enhancers for human skin and model lipophilic (oestradiol) and hydrophilic (5-fluorouracil) drugs. <i>International Journal of Pharmaceutics</i> , 1991, 74, 157-168.	2.6	139
15	Effects of terpenes and oleic acid as skin penetration enhancers towards 5-fluorouracil as assessed with time; permeation, partitioning and differential scanning calorimetry. <i>International Journal of Pharmaceutics</i> , 1995, 116, 237-251.	2.6	138
16	Skin delivery of oestradiol from lipid vesicles: importance of liposome structure. <i>International Journal of Pharmaceutics</i> , 2000, 204, 159-169.	2.6	120
17	Characterization of Dihydrates Prepared from Carbamazepine Polymorphs. <i>Journal of Pharmaceutical Sciences</i> , 1996, 85, 1064-1069.	1.6	118
18	Monitoring the penetration enhancer dimethyl sulfoxide in human stratum corneum in vivo by confocal Raman spectroscopy. <i>Pharmaceutical Research</i> , 2002, 19, 1577-1580.	1.7	113

#	ARTICLE	IF	CITATIONS
19	Drug interaction and location in liposomes: correlation with polar surface areas. International Journal of Pharmaceutics, 2005, 292, 179-185.	2.6	110
20	Raman spectra of human keratotic biopolymers: Skin, callus, hair and nail. Journal of Raman Spectroscopy, 1994, 25, 95-98.	1.2	109
21	On the Barrier Properties of the Cornea: A Microscopy Study of the Penetration of Fluorescently Labeled Nanoparticles, Polymers, and Sodium Fluorescein. Molecular Pharmaceutics, 2014, 11, 3556-3564.	2.3	102
22	On the non-Gaussian distribution of human skin permeabilities. International Journal of Pharmaceutics, 1992, 86, 69-77.	2.6	99
23	Quantitative analysis of mannitol polymorphs. X-ray powder diffractometry exploring preferred orientation effects. Journal of Pharmaceutical and Biomedical Analysis, 2002, 28, 1149-1159.	1.4	97
24	Chitosan-based mucoadhesive tablets for oral delivery of ibuprofen. International Journal of Pharmaceutics, 2012, 436, 602-610.	2.6	97
25	Mechanistic study into the enhanced transdermal permeation of a model $\beta$ -blocker, propranolol, by fatty acids: a melting point depression effect. International Journal of Pharmaceutics, 2001, 219, 161-176.	2.6	88
26	Stoichiometrically governed molecular interactions in drug: Poloxamer solid dispersions. International Journal of Pharmaceutics, 2010, 391, 162-168.	2.6	87
27	Use of in situ FT-Raman spectroscopy to study the kinetics of the transformation of carbamazepine polymorphs. Journal of Pharmaceutical and Biomedical Analysis, 2004, 36, 335-340.	1.4	86
28	On the Role of Specific Interactions in the Diffusion of Nanoparticles in Aqueous Polymer Solutions. Langmuir, 2014, 30, 308-317.	1.6	84
29	Quantitative analysis of mannitol polymorphs. FT-Raman spectroscopy. Journal of Pharmaceutical and Biomedical Analysis, 2002, 28, 1135-1147.	1.4	82
30	Effect of acyl chain length on transfection efficiency and toxicity of polyethylenimine. International Journal of Pharmaceutics, 2009, 378, 201-210.	2.6	81
31	Essential oils as novel human skin penetration enhancers. International Journal of Pharmaceutics, 1989, 57, R7-R9.	2.6	80
32	FT-Raman spectrum of cotton: a polymeric biomolecular analysis. Spectrochimica Acta Part A: Molecular Spectroscopy, 1994, 50, 807-811.	0.1	76
33	Potential applications of FT-Raman spectroscopy for dermatological diagnostics. Journal of Molecular Structure, 1995, 347, 379-387.	1.8	73
34	Polymer-mediated disruption of drug crystallinity. International Journal of Pharmaceutics, 2007, 336, 42-48.	2.6	72
35	Evaluation of drug physical form during granulation, tableting and storage. International Journal of Pharmaceutics, 2004, 275, 29-39.	2.6	69
36	Vesicular systems for delivering conventional small organic molecules and larger macromolecules to and through human skin. Expert Opinion on Drug Delivery, 2009, 6, 149-163.	2.4	65

#	ARTICLE	IF	CITATIONS
37	POZylation: a new approach to enhance nanoparticle diffusion through mucosal barriers. <i>Nanoscale</i> , 2015, 7, 13671-13679.	2.8	64
38	Adhesion of thiolated silica nanoparticles to urinary bladder mucosa: Effects of PEGylation, thiol content and particle size. <i>International Journal of Pharmaceutics</i> , 2016, 512, 32-38.	2.6	64
39	A lamellar matrix model for stratum corneum intercellular lipids. V. Effects of terpene penetration enhancers on the structure and thermal behaviour of the matrix. <i>International Journal of Pharmaceutics</i> , 1997, 146, 41-54.	2.6	58
40	Side chain variations radically alter the diffusion of poly(2-alkyl-2-oxazoline) functionalised nanoparticles through a mucosal barrier. <i>Biomaterials Science</i> , 2016, 4, 1318-1327.	2.6	58
41	Intracellular or Intercellular Localization of the Polar Pathway of Penetration Across Stratum Corneum. <i>Journal of Pharmaceutical Sciences</i> , 1998, 87, 1109-1114.	1.6	55
42	Urea analogues in propylene glycol as penetration enhancers in human skin. <i>International Journal of Pharmaceutics</i> , 1989, 56, 43-50.	2.6	50
43	Production of pH-Responsive Microparticles by Spray Drying: Investigation of Experimental Parameter Effects on Morphological and Release Properties. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 566-579.	1.6	49
44	Fourier transform Raman spectroscopy a novel application for examining human stratum corneum. <i>International Journal of Pharmaceutics</i> , 1992, 81, R11-R14.	2.6	48
45	Comparison of Fourier transform Raman spectra of mammalian and reptilian skin. <i>Analyst, The</i> , 1994, 119, 563.	1.7	43
46	Differential scanning calorimetry of human and animal stratum corneum membranes. <i>International Journal of Pharmaceutics</i> , 1998, 168, 17-22.	2.6	43
47	Disorder and dissolution enhancement: Deposition of ibuprofen on to insoluble polymers. <i>European Journal of Pharmaceutical Sciences</i> , 2005, 26, 288-294.	1.9	41
48	A lamellar matrix model for stratum corneum intercellular lipids. II. Effect of geometry of the stratum corneum on permeation of model drugs 5-fluorouracil and oestradiol. <i>International Journal of Pharmaceutics</i> , 1996, 131, 117-129.	2.6	38
49	Novel spectroscopic deconvolution procedure for complex biological systems: vibrational components in the FT-Raman spectra of ice-man and contemporary skin. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 3883.	1.7	36
50	Towards pain-free diagnosis of skin diseases through multiplexed microneedles: biomarker extraction and detection using a highly sensitive blotting method. <i>Drug Delivery and Translational Research</i> , 2015, 5, 387-396.	3.0	36
51	Protein conformational stability in the hydrofluoroalkane propellants tetrafluoroethane and heptafluoropropane analysed by Fourier transform Raman spectroscopy. <i>International Journal of Pharmaceutics</i> , 1999, 186, 31-41.	2.6	34
52	pH-Mediated Interactions between Poly(acrylic acid) and Methylcellulose in the Formation of Ultrathin Multilayered Hydrogels and Spherical Nanoparticles. <i>Macromolecules</i> , 2007, 40, 7707-7713.	2.2	34
53	A lamellar matrix model for stratum corneum intercellular lipids. I. Characterisation and comparison with stratum corneum inter-cellular structure. <i>International Journal of Pharmaceutics</i> , 1996, 131, 103-115.	2.6	32
54	Particle size dependent molecular rearrangements during the dehydration of trehalose dihydrate in situ FT-Raman spectroscopy. <i>Pharmaceutical Research</i> , 1998, 15, 1207-1214.	1.7	31

#	ARTICLE	IF	CITATIONS
55	Increasing doxorubicin activity against breast cancer cells using PPAR $\beta$ ligands and by exploiting circadian rhythms. <i>British Journal of Pharmacology</i> , 2013, 169, 1178-1188.	2.7	31
56	Thermodynamic and kinetic properties of interpolymer complexes assessed by isothermal titration calorimetry and surface plasmon resonance. <i>Soft Matter</i> , 2014, 10, 8254-8260.	1.2	31
57	A carbamazepine-indomethacin (1:1) cocrystal produced by milling. <i>CrystEngComm</i> , 2011, 13, 6327.	1.3	29
58	Application of hydrogen-bond propensity calculations to an indomethacin-nicotinamide (1:1) co-crystal. <i>CrystEngComm</i> , 2013, 15, 4041.	1.3	29
59	RNA Aptamer Delivery through Intact Human Skin. <i>Journal of Investigative Dermatology</i> , 2018, 138, 282-290.	0.3	29
60	Palaeodental studies using FT-Raman spectroscopy. <i>Biospectroscopy</i> , 1995, 1, 29-36.	0.4	27
61	Characterization of complex coacervates of some tricyclic antidepressants and evaluation of their potential for enhancing transdermal flux. <i>Journal of Controlled Release</i> , 1996, 41, 215-227.	4.8	27
62	Penciclovir solubility in Eudragit films: a comparison of X-ray, thermal, microscopic and release rate techniques. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 34, 945-956.	1.4	27
63	A lamellar matrix model for stratum corneum intercellular lipids IV. Effects of terpene penetration enhancers on the permeation of 5-fluorouracil and oestradiol through the matrix. <i>International Journal of Pharmaceutics</i> , 1996, 145, 49-59.	2.6	25
64	Bioaccessibility of PBDEs present in indoor dust: A novel dialysis membrane method with a Tenax TA <sup>®</sup> absorption sink. <i>Science of the Total Environment</i> , 2018, 621, 1-8.	3.9	25
65	Solvent Influences on Metastable Polymorph Lifetimes: Real-Time Interconversions Using Energy Dispersive X-Ray Diffractometry**We dedicate this paper to Professor David Grant. Not only a talented scientist, he was a man who gave freely of his time and ideas to support and encourage others, including ourselves.. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 1069-1078.	1.6	24
66	Fourier transform Raman microscopic study of drug distribution in a transdermal drug delivery device. <i>Vibrational Spectroscopy</i> , 1996, 11, 105-113.	1.2	23
67	Design, synthesis and characterization of linear unnatural amino acids for skin moisturization. <i>International Journal of Cosmetic Science</i> , 2017, 39, 72-82.	1.2	22
68	Fourier transform Raman and IR spectra of snake skin. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1993, 49, 801-807.	0.1	21
69	A lamellar matrix model for stratum corneum intercellular lipids III. Effects of terpene penetration enhancers on the release of 5-fluorouracil and oestradiol from the matrix. <i>International Journal of Pharmaceutics</i> , 1996, 145, 37-47.	2.6	21
70	Effect of melting point of chiral terpenes on human stratum corneum uptake. <i>International Journal of Pharmaceutics</i> , 2001, 228, 89-97.	2.6	21
71	An optimized reverse-phase high performance liquid chromatographic method for evaluating percutaneous absorption of glucosamine hydrochloride. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 41, 385-392.	1.4	20
72	Improved performance of crystal structure solution from powder diffraction data through parameter tuning of a simulated annealing algorithm. <i>Journal of Applied Crystallography</i> , 2017, 50, 1411-1420.	1.9	20

#	ARTICLE	IF	CITATIONS
73	Raman spectroscopic studies of the skins of the Sahara sand viper, the carpet python and the American black rat snake. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1993, 49, 913-919.	0.1	19
74	Using pH Abnormalities in Diseased Skin to Trigger and Target Topical Therapy. <i>Pharmaceutical Research</i> , 2011, 28, 2589-2598.	1.7	19
75	Structure and characterisation of hydroxyethylcellulose-silica nanoparticles. <i>RSC Advances</i> , 2018, 8, 6471-6478.	1.7	19
76	A Comparison of Thiolated and Disulfide-Crosslinked Polyethylenimine for Nonviral Gene Delivery. <i>Macromolecular Bioscience</i> , 2013, 13, 1163-1173.	2.1	18
77	Polymer structure and property effects on solid dispersions with haloperidol: Poly(N-vinyl) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	2.6	18
78	pH-Induced Modifications to Stratum Corneum Lipids Investigated Using Thermal, Spectroscopic, and Chromatographic Techniques. <i>Journal of Pharmaceutical Sciences</i> , 2003, 92, 173-179.	1.6	17
79	Controlling the Size of Thiolated Organosilica Nanoparticles. <i>Langmuir</i> , 2018, 34, 8347-8354.	1.6	17
80	Applications of Raman spectroscopy to skin research.. <i>Skin Research and Technology</i> , 1997, 3, 147-153.	0.8	16
81	Thiolated and PEGylated silica nanoparticle delivery to hair follicles. <i>International Journal of Pharmaceutics</i> , 2021, 593, 120130.	2.6	15
82	Improved crystal structure solution from powder diffraction data by the use of conformational information. <i>Journal of Applied Crystallography</i> , 2017, 50, 1421-1427.	1.9	14
83	Optimizing layer-by-layer deposition of interpolymer complexes on solid substrates using Biacore. <i>Soft Matter</i> , 2012, 8, 6782.	1.2	7
84	Novel Polyvinylpyrrolidones To Improve Delivery of Poorly Water-Soluble Drugs: From Design to Synthesis and Evaluation. <i>Molecular Pharmaceutics</i> , 2012, 9, 2237-2247.	2.3	6
85	Planarian toxicity fluorescent assay: A rapid and cheap pre-screening tool for potential skin irritants. <i>Toxicology in Vitro</i> , 2020, 69, 105004.	1.1	6
86	CDASH: a cloud-enabled program for structure solution from powder diffraction data. <i>Journal of Applied Crystallography</i> , 2015, 48, 2033-2039.	1.9	5
87	Understanding the temperature induced aggregation of silica nanoparticles decorated with temperature-responsive polymers: Can a small step in the chemical structure make a giant leap for a phase transition?. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 249-259.	5.0	5
88	Accelerating topical formulation development for inflammatory dermatoses; an ex vivo human skin culture model consistent with clinical therapeutics. <i>International Journal of Pharmaceutics</i> , 2022, 618, 121648.	2.6	2
89	Brian Barry: Innovative Contributions to Transdermal and Topical Drug Delivery. <i>Skin Pharmacology and Physiology</i> , 2013, 26, 234-242.	1.1	1