Arto Urtti

List of Publications by Year in descending order

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216 papers	11,689 citations	25014 57 h-index	37183 96 g-index
231 all docs	231 docs citations	231 times ranked	11484 citing authors

#	Article	IF	Citations
1	Challenges and obstacles of ocular pharmacokinetics and drug delivery. Advanced Drug Delivery Reviews, 2006, 58, 1131-1135.	6.6	782
2	Pharmacokinetic aspects of retinal drug delivery. Progress in Retinal and Eye Research, 2017, 57, 134-185.	7.3	454
3	Current and future ophthalmic drug delivery systemsA shift to the posterior segment. Drug Discovery Today, 2008, 13, 135-143.	3.2	356
4	Interactions of polymeric and liposomal gene delivery systems with extracellular glycosaminoglycans: physicochemical and transfection studies. Biochimica Et Biophysica Acta - Biomembranes, 1999, 1415, 331-341.	1.4	311
5	Ocular absorption following topical delivery. Advanced Drug Delivery Reviews, 1995, 16, 3-19.	6.6	299
6	Drug transport in corneal epithelium and bloodâ€“retina barrier: Emerging role of transporters in ocular pharmacokinetics. Advanced Drug Delivery Reviews, 2006, 58, 1136-1163.	6.6	294
7	Cell culture models of the ocular barriers. European Journal of Pharmaceutics and Biopharmaceutics, 2005, 60, 207-225.	2.0	245
8	Minimizing systemic absorption of topically administered ophthalmic drugs. Survey of Ophthalmology, 1993, 37, 435-456.	1.7	236
9	Permeability of Retinal Pigment Epithelium: Effects of Permeant Molecular Weight and Lipophilicity. , 2005, 46, 641.		232
10	Gold nanoparticles enable selective light-induced contents release from liposomes. Journal of Controlled Release, 2007, 122, 86-93.	4.8	223
11	Interaction of liposomes with human skin in vitro â€" The influence of lipid composition and structure. Lipids and Lipid Metabolism, 1996, 1304, 179-189.	2.6	210
12	Extracellular Glycosaminoglycans Modify Cellular Trafficking of Lipoplexes and Polyplexes. Journal of Biological Chemistry, 2001, 276, 33875-33880.	1.6	182
13	Drug permeation in biomembranes. European Journal of Pharmaceutical Sciences, 2004, 23, 13-47.	1.9	167
14	Rabbit as an animal model for intravitreal pharmacokinetics: Clinical predictability and quality of the published data. Experimental Eye Research, 2015, 137, 111-124.	1.2	167
15	Extracellular and intracellular barriers in non-viral gene delivery. Journal of Controlled Release, 2003, 93, 213-217.	4.8	147
16	Liposomeâ€“skin interactions and their effects on the skin permeation of drugs. European Journal of Pharmaceutical Sciences, 1999, 7, 279-286.	1.9	146
17	Gold-embedded photosensitive liposomes for drug delivery: Triggering mechanism and intracellular release. Journal of Controlled Release, 2010, 147, 136-143.	4.8	140
18	Transscleral drug delivery to the posterior eye: Prospects of pharmacokinetic modeling. Advanced Drug Delivery Reviews, 2006, 58, 1164-1181.	6.6	138

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19	Barrier analysis of periocular drug delivery to the posterior segment. Journal of Controlled Release, 2010, 148, 42-48.	4.8	130
20	Paracellular Porosity and Pore Size of the Human Intestinal Epithelium in Tissue and Cell Culture Models. Journal of Pharmaceutical Sciences, 2010, 99, 2166-2175.	1.6	127
21	Vitreous is a barrier in nonviral gene transfer by cationic lipids and polymers. Pharmaceutical Research, 2003, 20, 576-583.	1.7	124
22	Design principles of ocular drug delivery systems: importance of drug payload, release rate, and material properties. Drug Discovery Today, 2019, 24, 1446-1457.	3.2	124
23	Evaluation of cytotoxicity of various ophthalmic drugs, eye drop excipients and cyclodextrins in an immortalized human corneal epithelial cell line. Pharmaceutical Research, 1998, 15, 1275-1280.	1.7	122
24	Loss of NRF-2 and PGC-1Î± genes leads to retinal pigment epithelium damage resembling dry age-related macular degeneration. Redox Biology, 2019, 20, 1-12.	3.9	117
25	Light induced cytosolic drug delivery from liposomes with gold nanoparticles. Journal of Controlled Release, 2015, 203, 85-98.	4.8	113
26	Intravitreal clearance and volume of distribution of compounds in rabbits: In silico prediction and pharmacokinetic simulations for drug development. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 95, 215-226.	2.0	108
27	Indocyanine Green-Loaded Liposomes for Light-Triggered Drug Release. Molecular Pharmaceutics, 2016, 13, 2095-2107.	2.3	102
28	Substrates and inhibitors of efflux proteins interfere with the MTT assay in cells and may lead to underestimation of drug toxicity. European Journal of Pharmaceutical Sciences, 2004, 23, 181-188.	1.9	97
29	Study of PEGylated Lipid Layers as a Model for PEGylated Liposome Surfaces: Molecular Dynamics Simulation and Langmuir Monolayer Studies. Langmuir, 2011, 27, 7788-7798.	1.6	95
30	Cell-surface glycosaminoglycans inhibit cation-mediated gene transfer. Journal of Gene Medicine, 2004, 6, 405-414.	1.4	94
31	Oligonucleotide-cationic liposome interactions. A physicochemical study. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1195, 115-123.	1.4	93
32	Polysaccharides in Ocular Drug Delivery. Pharmaceutics, 2020, 12, 22.	2.0	92
33	Artificially cloaked viral nanovaccine for cancer immunotherapy. Nature Communications, 2019, 10, 5747.	5.8	86
34	Novel biodegradable polyesteramide microspheres for controlled drug delivery in Ophthalmology. Journal of Controlled Release, 2015, 211, 105-117.	4.8	85
35	Corneal and conjunctival drug permeability: Systematic comparison and pharmacokinetic impact in the eye. European Journal of Pharmaceutical Sciences, 2018, 119, 83-89.	1.9	85
36	Implications of melanin binding in ocular drug delivery. Advanced Drug Delivery Reviews, 2018, 126, 23-43.	6.6	80

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37	Exploring the Impact of Morphology on the Properties of Biodegradable Nanoparticles and Their Diffusion in Complex Biological Medium. Biomacromolecules, 2021, 22, 126-133.	2.6	80
38	Interaction of lipid nanoparticles with human epidermis and an organotypic cell culture model. International Journal of Pharmaceutics, 2008, 354, 180-195.	2.6	79
39	Novel cationic amphiphilic 1,4-dihydropyridine derivatives for DNA delivery. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1509, 451-466.	1.4	78
40	Undefined role of mucus as a barrier in ocular drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 96, 442-446.	2.0	78
41	Light activated liposomes: Functionality and prospects in ocular drug delivery. Journal of Controlled Release, 2016, 244, 157-166.	4.8	78
42	Paracellular and passive transcellular permeability in immortalized human corneal epithelial cell culture model. European Journal of Pharmaceutical Sciences, 2003, 20, 99-106.	1.9	76
43	Intravitreal hydrogels for sustained release of therapeutic proteins. Journal of Controlled Release, 2020, 326, 419-441.	4.8	76
44	Efflux Protein Expression in Human Retinal Pigment Epithelium Cell Lines. Pharmaceutical Research, 2009, 26, 1785-1791.	1.7	72
45	Generation of hESC-derived retinal pigment epithelium on biopolymer coated polyimide membranes. Biomaterials, 2012, 33, 8047-8054.	5.7	71
46	SPECT/CT imaging of radiolabeled cubosomes and hexosomes forÂpotential theranostic applications. Biomaterials, 2013, 34, 8491-8503.	5.7	71
47	Oncolytic adenoviruses coated with MHC-I tumor epitopes increase the antitumor immunity and efficacy against melanoma. OncoImmunology, 2016, 5, e1105429.	2.1	70
48	Computational Prediction of Oral Drug Absorption Based on Absorption Rate Constants in Humans. Journal of Medicinal Chemistry, 2006, 49, 3674-3681.	2.9	69
49	Low molecular weight hyaluronan shielding of DNA/PEI polyplexes facilitates CD44 receptor mediated uptake in human corneal epithelial cells. Journal of Gene Medicine, 2008, 10, 70-80.	1.4	69
50	VitaminÂC enhances differentiation of a continuous keratinocyte cell line (REK) into epidermis with normal stratum corneum ultrastructure and functional permeability barrier. Histochemistry and Cell Biology, 2001, 116, 287-297.	0.8	66
51	Temperature-Sensitive Poly(N-(2-hydroxypropyl)methacrylamide mono/dilactate)-Coated Liposomes for Triggered Contents Release. Bioconjugate Chemistry, 2007, 18, 2131-2136.	1.8	66
52	Polyplex-mediated gene transfer and cell cycle: effect of carrier on cellular uptake and intracellular kinetics, and significance of glycosaminoglycans. Journal of Gene Medicine, 2007, 9, 479-487.	1.4	65
53	Simultaneous determination of eight Î²-blockers by gradient high-performance liquid chromatography with combined ultraviolet and fluorescence detection in corneal permeability studies in vitro. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 772, 81-87.	1.2	63
54	p62/sequestosome 1 as a regulator of proteasome inhibitor-induced autophagy in human retinal pigment epithelial cells. Molecular Vision, 2010, 16, 1399-414.	1.1	62

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55	Technetium-99m-labeled nanofibrillar cellulose hydrogel for in vivo drug release. European Journal of Pharmaceutical Sciences, 2014, 65, 79-88.	1.9	60
56	Laminin-511 and laminin-521-based matrices for efficient hepatic specification of human pluripotent stem cells. Biomaterials, 2016, 103, 86-100.	5.7	60
57	Filter-cultured ARPE-19 cells as outer bloodâ€“retinal barrier model. European Journal of Pharmaceutical Sciences, 2010, 40, 289-296.	1.9	59
58	Modulatory Effect of Human Plasma on the Internal Nanostructure and Size Characteristics of Liquid-Crystalline Nanocarriers. Langmuir, 2015, 31, 5042-5049.	1.6	59
59	Analysis of cause of failure of new targeting peptide in PEGylated liposome: Molecular modeling as rational design tool for nanomedicine. European Journal of Pharmaceutical Sciences, 2012, 46, 121-130.	1.9	58
60	Human corneal cell culture models for drug toxicity studies. Drug Delivery and Translational Research, 2016, 6, 660-675.	3.0	54
61	Effluxing ABC transporters in human corneal epithelium. Journal of Pharmaceutical Sciences, 2010, 99, 1087-1098.	1.6	53
62	Starch acetate microparticles for drug delivery into retinal pigment epitheliumâ€”in vitro study. Journal of Controlled Release, 2004, 98, 407-413.	4.8	52
63	Estimation of pore size and pore density of biomembranes from permeability measurements of polyethylene glycols using an effusion-like approach. Journal of Controlled Release, 1997, 49, 97-104.	4.8	51
64	Binding of Betaxolol, Metoprolol and Oligonucleotides to Synthetic and Bovine Ocular Melanin, and Prediction of Drug Binding to Melanin in Human Choroid-Retinal Pigment Epithelium. Pharmaceutical Research, 2007, 24, 2063-2070.	1.7	50
65	Pre-Targeting and Direct Immunotargeting of Liposomal Drug Carriers to Ovarian Carcinoma. PLoS ONE, 2012, 7, e41410.	1.1	50
66	Neural retina limits the nonviral gene transfer to retinal pigment epithelium in an in vitro bovine eye model. AAPS Journal, 2004, 6, 72-80.	2.2	49
67	Ocular barriers to retinal delivery of intravitreal liposomes: Impact of vitreoretinal interface. Journal of Controlled Release, 2020, 328, 952-961.	4.8	49
68	Controlled ocular timolol delivery: systemic absorption and intraocular pressure effects in humans. Pharmaceutical Research, 1994, 11, 1278-1282.	1.7	48
69	Prediction of the Corneal Permeability of Drug-Like Compounds. Pharmaceutical Research, 2010, 27, 1398-1407.	1.7	46
70	In situanalysis of liposome hard and soft protein corona structure and composition in a single label-free workflow. Nanoscale, 2020, 12, 1728-1741.	2.8	46
71	A novel drug-regulated gene expression system based on the nuclear receptor constitutive androstane receptor (CAR). Pharmaceutical Research, 2001, 18, 146-150.	1.7	45
72	Time-Resolved Fluorescence Spectroscopy Reveals Functional Differences of Cationic Polymerâ^'DNA Complexes. Journal of the American Chemical Society, 2008, 130, 11695-11700.	6.6	45

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73	Olaparib significantly delays photoreceptor loss in a model for hereditary retinal degeneration. Scientific Reports, 2016, 6, 39537.	1.6	45
74	LCâ€“MS/MS Based Quantitation of ABC and SLC Transporter Proteins in Plasma Membranes of Cultured Primary Human Retinal Pigment Epithelium Cells and Immortalized ARPE19 Cell Line. Molecular Pharmaceutics, 2017, 14, 605-613.	2.3	45
75	Disposition of ophthalmic timolol in treated and untreated rabbit eyes. A multiple and single dose study. Experimental Eye Research, 1984, 38, 203-206.	1.2	44
76	Gene Delivery and Expression in Human Retinal Pigment Epithelial Cells: Effects of Synthetic Carriers, Serum, Extracellular Matrix and Viral Promoters. Journal of Drug Targeting, 2000, 7, 413-421.	2.1	44
77	Mechanisms of polyethylenimineâ€mediated DNA delivery: free carrier helps to overcome the barrier of cellâ€surface glycosaminoglycans. Journal of Gene Medicine, 2011, 13, 402-409.	1.4	43
78	Oxidative Stress Protection by Exogenous Delivery of rhHsp70 Chaperone to the Retinal Pigment Epithelium (RPE), a Possible Therapeutic Strategy Against RPE Degeneration. Pharmaceutical Research, 2015, 32, 211-221.	1.7	43
79	The effect of light sensitizer localization on the stability of indocyanine green liposomes. Journal of Controlled Release, 2018, 284, 213-223.	4.8	43
80	Expression, activity and pharmacokinetic impact of ocular transporters. Advanced Drug Delivery Reviews, 2018, 126, 3-22.	6.6	42
81	Structural Elucidation of Light Activated Vesicles. Journal of Physical Chemistry Letters, 2010, 1, 962-966.	2.1	40
82	Characterization of Oil-Free and Oil-Loaded Liquid-Crystalline Particles Stabilized by Negatively Charged Stabilizer Citrem. Langmuir, 2012, 28, 11755-11766.	1.6	39
83	HDAC inhibition in thecpfl1mouse protects degenerating cone photoreceptorsin vivo. Human Molecular Genetics, 2016, 25, ddw275.	1.4	39
84	Prediction of Ocular Drug Distribution from Systemic Blood Circulation. Molecular Pharmaceutics, 2016, 13, 2906-2911.	2.3	39
85	Impact of Chemical Structure on Conjunctival Drug Permeability: Adopting Porcine Conjunctiva and Cassette Dosing for Construction of In Silico Model. Journal of Pharmaceutical Sciences, 2017, 106, 2463-2471.	1.6	37
86	Multi-parametric surface plasmon resonance platform for studying liposome-serum interactions and protein corona formation. Drug Delivery and Translational Research, 2017, 7, 228-240.	3.0	37
87	Epidermal cell culture model derived from rat keratinocytes with permeability characteristics comparable to human cadaver skin. European Journal of Pharmaceutical Sciences, 2003, 20, 107-113.	1.9	36
88	Drug Distribution to Retinal Pigment Epithelium: Studies on Melanin Binding, Cellular Kinetics, and Single Photon Emission Computed Tomography/Computed Tomography Imaging. Molecular Pharmaceutics, 2016, 13, 2977-2986.	2.3	36
89	The role of cell cycle on polyplex-mediated gene transfer into a retinal pigment epithelial cell line. Journal of Gene Medicine, 2005, 7, 466-476.	1.4	35
90	Comparison of rat epidermal keratinocyte organotypic culture (ROC) with intact human skin: Lipid composition and thermal phase behavior of the stratum corneum. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 824-834.	1.4	35

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91	Corneal epithelium as a platform for secretion of transgene products after transfection with liposomal gene eyedrops. Journal of Gene Medicine, 2007, 9, 208-216.	1.4	33
92	Role of Polyplex Intermediate Species on Gene Transfer Efficiency: Polyethylenimineâ˜'DNA Complexes and Time-Resolved Fluorescence Spectroscopy. Journal of Physical Chemistry B, 2011, 115, 1895-1902.	1.2	33
93	Cisplatin Encapsulation Generates Morphologically Different Multicompartments in the Internal Nanostructures of Nonlamellar Liquid-Crystalline Self-Assemblies. Langmuir, 2018, 34, 6570-6581.	1.6	33
94	Effect of ocular pigmentation on pilocarpine pharmacology in the rabbit eye. I. Drag distribution and metabolism. International Journal of Pharmaceutics, 1984, 18, 17-24.	2.6	32
95	Ocular pharmacokinetic modeling using corneal absorption and desorption rates from in vitro permeation experiments with cultured corneal epithelial cells. Pharmaceutical Research, 2003, 20, 1409-1416.	1.7	32
96	A critical assessment of in vitro tissue models for ADME and drug delivery. Journal of Controlled Release, 2014, 190, 94-114.	4.8	32
97	Diffusion and Protein Corona Formation of Lipid-Based Nanoparticles in the Vitreous Humor: Profiling and Pharmacokinetic Considerations. Molecular Pharmaceutics, 2021, 18, 699-713.	2.3	32
98	Permeability of pilocarpic acid diesters across albino rabbit cornea in vitro. International Journal of Pharmaceutics, 1991, 74, 221-228.	2.6	31
99	Intracellular DNA release and elimination correlate poorly with transgene expression after non-viral transfection. Journal of Controlled Release, 2009, 136, 226-231.	4.8	31
100	Photothermally Triggered Lipid Bilayer Phase Transition and Drug Release from Gold Nanorod and Indocyanine Green Encapsulated Liposomes. Langmuir, 2016, 32, 4554-4563.	1.6	31
101	Mitophagy in the Retinal Pigment Epithelium of Dry Age-Related Macular Degeneration Investigated in the NFE2L2/PGC-1Î±-/- Mouse Model. International Journal of Molecular Sciences, 2020, 21, 1976.	1.8	31
102	Impact of probe compound in MRP2 vesicular transport assays. European Journal of Pharmaceutical Sciences, 2012, 46, 100-105.	1.9	30
103	Melanin binding study of clinical drugs with cassette dosing and rapid equilibrium dialysis inserts. European Journal of Pharmaceutical Sciences, 2017, 109, 162-168.	1.9	30
104	Biopharmaceutics of Topical Ophthalmic Suspensions: Importance of Viscosity and Particle Size in Ocular Absorption of Indomethacin. Pharmaceutics, 2021, 13, 452.	2.0	30
105	Independent versus Cooperative Binding in Polyethylenimineâ€"DNA and Poly(<scp>l</scp>-lysine)â€"DNA Polyplexes. Journal of Physical Chemistry B, 2013, 117, 10405-10413.	1.2	29
106	Light-Activated Liposomes Coated with Hyaluronic Acid as a Potential Drug Delivery System. Pharmaceutics, 2020, 12, 763.	2.0	29
107	Transdermal iontophoresis of sotalol and salicylate; the effect of skin charge and penetration enhancers. Journal of Controlled Release, 1993, 26, 109-117.	4.8	28
108	Prediction of the Vitreal Half-Life of Small Molecular Drug-Like Compounds. Pharmaceutical Research, 2012, 29, 3302-3311.	1.7	28

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109	Organotypic cell cultures and two-photon imaging: Tools for in vitro and in vivo assessment of percutaneous drug delivery and skin toxicity. Journal of Controlled Release, 2012, 161, 656-667.	4.8	28
110	Characterization of reducible peptide oligomers as carriers for gene delivery. International Journal of Pharmaceutics, 2013, 441, 736-747.	2.6	28
111	Intracellular PK/PD Relationships of Free and Liposomal Doxorubicin: Quantitative Analyses and PK/PD Modeling. Molecular Pharmaceutics, 2016, 13, 1358-1365.	2.3	27
112	Esterase activity in porcine and albino rabbit ocular tissues. European Journal of Pharmaceutical Sciences, 2018, 123, 106-110.	1.9	27
113	Melanin targeting for intracellular drug delivery: Quantification of bound and free drug in retinal pigment epithelial cells. Journal of Controlled Release, 2018, 283, 261-268.	4.8	27
114	Role of retinal pigment epithelium permeability in drug transfer between posterior eye segment and systemic blood circulation. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 143, 18-23.	2.0	27
115	Pharmacokinetic Simulations of Intravitreal Biologicals: Aspects of Drug Delivery to the Posterior and Anterior Segments. Pharmaceutics, 2019, 11, 9.	2.0	27
116	Long-Lasting Secretion of Transgene Product from Differentiated and Filter-Grown Retinal Pigment Epithelial Cells After Nonviral Gene Transfer. Current Eye Research, 2005, 30, 345-353.	0.7	26
117	Inner Bloodâ€“Retinal Barrier Dominantly Expresses Breast Cancer Resistance Protein: Comparative Quantitative Targeted Absolute Proteomics Study of CNS Barriers in Pig. Molecular Pharmaceutics, 2017, 14, 3729-3738.	2.3	26
118	Extended Pharmacokinetic Model of the Rabbit Eye for Intravitreal and Intracameral Injections of Macromolecules: Quantitative Analysis of Anterior and Posterior Elimination Pathways. Pharmaceutical Research, 2018, 35, 153.	1.7	26
119	Characterization of artificially re-pigmented ARPE-19 retinal pigment epithelial cell model. Scientific Reports, 2019, 9, 13761.	1.6	26
120	Exploring Light-Sensitive Nanocarriers for Simultaneous Triggered Antibiotic Release and Disruption of Biofilms Upon Generation of Laser-Induced Vapor Nanobubbles. Pharmaceutics, 2019, 11, 201.	2.0	26
121	Intravitreal Polymeric Nanocarriers with Long Ocular Retention and Targeted Delivery to the Retina and Optic Nerve Head Region. Pharmaceutics, 2021, 13, 445.	2.0	26
122	Nanofibrillar cellulose-alginate hydrogel coated surgical sutures as cell-carrier systems. PLoS ONE, 2017, 12, e0183487.	1.1	26
123	Passive oral drug absorption can be predicted more reliably by experimental than computational modelsâ€”Fact or myth. European Journal of Pharmaceutical Sciences, 2008, 34, 129-139.	1.9	25
124	Understanding Molecular Drivers of Melanin Binding To Support Rational Design of Small Molecule Ophthalmic Drugs. Journal of Medicinal Chemistry, 2018, 61, 10106-10115.	2.9	25
125	Controlled drug delivery devices for experimental ocular studies with timolol 1. In vitro release studies. International Journal of Pharmaceutics, 1990, 61, 235-240.	2.6	24
126	Formation of Permeability Barrier in Epidermal Organotypic Culture for Studies on Drug Transport. Journal of Investigative Dermatology, 2001, 117, 1322-1324.	0.3	24

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127	Gene expression analysis in SV-40 immortalized human corneal epithelial cells cultured with an air-liquid interface. Molecular Vision, 2010, 16, 2109-20.	1.1	24
128	Nanostructured aqueous dispersions of citrem interacting with lipids and PEGylated lipids. RSC Advances, 2013, 3, 24576.	1.7	23
129	Hepatic differentiation of human pluripotent stem cells on human liver progenitor HepaRG-derived acellular matrix. Experimental Cell Research, 2016, 341, 207-217.	1.2	23
130	Establishment of an In Vitroâ€“In Vivo Correlation for Melanin Binding and the Extension of the Ocular Half-Life of Small-Molecule Drugs. Molecular Pharmaceutics, 2019, 16, 4890-4901.	2.3	23
131	Amphiphilic Polypeptides for VEGF siRNA Delivery into Retinal Epithelial Cells. Pharmaceutics, 2020, 12, 39.	2.0	23
132	Release of functional dexamethasone by intracellular enzymes: A modular peptide-based strategy for ocular drug delivery. Journal of Controlled Release, 2020, 327, 584-594.	4.8	22
133	Influence of Melanin Characteristics on Drug Binding Properties. Molecular Pharmaceutics, 2019, 16, 2549-2556.	2.3	21
134	Distribution of Small Molecular Weight Drugs into the Porcine Lens: Studies on Imaging Mass Spectrometry, Partition Coefficients, and Implications in Ocular Pharmacokinetics. Molecular Pharmaceutics, 2019, 16, 3968-3976.	2.3	20
135	Enhanced Delivery of 4-Thioureidoiminomethylpyridinium Perchlorate in Tuberculosis Models with IgG Functionalized Poly(Lactic Acid)-Based Particles. Pharmaceutics, 2019, 11, 2.	2.0	20
136	Different effects of pH on the permeation of pilocarpine and pilocarpine prodrugs across the isolated rabbit cornea. European Journal of Pharmaceutical Sciences, 1998, 6, 169-176.	1.9	19
137	Encapsulated cells for long-term secretion of soluble VEGF receptor 1: Material optimization and simulation of ocular drug response. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 95, 387-397.	2.0	19
138	Topical ocular pharmacokinetics and bioavailability for a cocktail of atenolol, timolol and betaxolol in rabbits. European Journal of Pharmaceutical Sciences, 2020, 155, 105553.	1.9	19
139	Pharmacoproteomics of Brain Barrier Transporters and Substrate Design for the Brain Targeted Drug Delivery. Pharmaceutical Research, 2022, 39, 1363-1392.	1.7	19
140	Liposomal sunitinib for ocular drug delivery: A potential treatment for choroidal neovascularization. International Journal of Pharmaceutics, 2022, 620, 121725.	2.6	19
141	Light-Triggered Cellular Delivery of Oligonucleotides. Pharmaceutics, 2019, 11, 90.	2.0	18
142	Quantitative Protein Expression in the Human Retinal Pigment Epithelium: Comparison Between Apical and Basolateral Plasma Membranes With Emphasis on Transporters. , 2019, 60, 5022.		18
143	Amphiphilic properties of pilocarpine prodrugs. International Journal of Pharmaceutics, 1996, 133, 171-178.	2.6	17
144	Glycosaminoglycan-resistant and pH-sensitive lipid-coated DNA complexes produced by detergent removal method. Journal of Controlled Release, 2008, 131, 145-149.	4.8	17

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145	Synthesis and Cellular Uptake of Fluorescently Labeled Multivalent Hyaluronan Disaccharide Conjugates of Oligonucleotide Phosphorothioates. Bioconjugate Chemistry, 2008, 19, 2549-2558.	1.8	17
146	Isolation of Intact and Functional Melanosomes from the Retinal Pigment Epithelium. PLoS ONE, 2016, 11, e0160352.	1.1	17
147	General Pharmacokinetic Model for Topically Administered Ocular Drug Dosage Forms. Pharmaceutical Research, 2016, 33, 2680-2690.	1.7	17
148	Intravitreal Pharmacokinetics in Mice: SPECT/CT Imaging and Scaling to Rabbits and Humans. Molecular Pharmaceutics, 2019, 16, 4399-4404.	2.3	17
149	The effect of prolyl oligopeptidase inhibitors on alpha-synuclein aggregation and autophagy cannot be predicted by their inhibitory efficacy. Biomedicine and Pharmacotherapy, 2020, 128, 110253.	2.5	17
150	Microscale Thermophoresis as a Screening Tool to Predict Melanin Binding of Drugs. Pharmaceutics, 2020, 12, 554.	2.0	17
151	Hexosome engineering for targeting of regional lymph nodes. Materialia, 2020, 11, 100705.	1.3	17
152	Mucoadhesive properties of nanogels based on stimuli-sensitive glycosaminoglycan-graft-pNIPAAm copolymers. International Journal of Biological Macromolecules, 2021, 186, 864-872.	3.6	17
153	Application Site Dependent Ocular Absorption of Timolol. Journal of Ocular Pharmacology and Therapeutics, 1988, 4, 335-343.	0.6	16
154	Water-activated, pH-controlled patch in transdermal administration of timolol. European Journal of Pharmaceutical Sciences, 2000, 11, 19-24.	1.9	16
155	Rat epidermal keratinocyte organotypic culture (ROC) compared to human cadaver skin: The effect of skin permeation enhancers. European Journal of Pharmaceutical Sciences, 2007, 30, 240-250.	1.9	16
156	Differentially cleaving peptides as a strategy for controlled drug release in human retinal pigment epithelial cells. Journal of Controlled Release, 2017, 251, 37-48.	4.8	16
157	Binding of Small Molecule Drugs to Porcine Vitreous Humor. Molecular Pharmaceutics, 2018, 15, 2174-2179.	2.3	16
158	Ocular pharmacokinetics of atenolol, timolol and betaxolol cocktail: Tissue exposures in the rabbit eye. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 166, 155-162.	2.0	16
159	Exploring the structureâ€“activity relationships of ABCC2 modulators using a screening approach. Bioorganic and Medicinal Chemistry, 2015, 23, 3513-3525.	1.4	15
160	Electrical synapses interconnecting axons revealed in the optic nerve head â€“ a novel model of gap junctionsâ€™ involvement in optic nerve function. Acta Ophthalmologica, 2020, 98, 408-417.	0.6	15
161	Detection of Phase Transition in Photosensitive Liposomes by Advanced QCM. Journal of Physical Chemistry C, 2015, 119, 21395-21403.	1.5	14
162	Interpretation of Ocular Melanin Drug Binding Assays. Alternatives to the Model of Multiple Classes of Independent Sites. Molecular Pharmaceutics, 2016, 13, 1251-1257.	2.3	14

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163	Peptide Inhibitors of Vascular Endothelial Growth Factor A: Current Situation and Perspectives. Pharmaceutics, 2021, 13, 1337.	2.0	14
164	Ocular metabolism and distribution of drugs in the rabbit eye: Quantitative assessment after intracameral and intravitreal administrations. International Journal of Pharmaceutics, 2022, 613, 121361.	2.6	14
165	Understanding dexamethasone kinetics in the rabbit tear fluid: Drug release and clearance from solution, suspension and hydrogel formulations. European Journal of Pharmaceutics and Biopharmaceutics, 2022, 172, 53-60.	2.0	13
166	Rat epidermal keratinocyte organotypic culture (ROC) as a model for chemically induced skin irritation testing. Toxicology and Applied Pharmacology, 2005, 208, 233-241.	1.3	12
167	Comprehensive Ocular and Systemic Pharmacokinetics of Brinzolamide in Rabbits After Intracameral, Topical, and Intravenous Administration. Journal of Pharmaceutical Sciences, 2021, 110, 529-535.	1.6	12
168	Imaging, quantitation and kinetic modelling of intravitreal nanomaterials. International Journal of Pharmaceutics, 2022, 621, 121800.	2.6	12
169	Retinal Pigment Epithelial Cell Line with Fast Differentiation and Improved Barrier Properties. Pharmaceutics, 2019, 11, 412.	2.0	11
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171	Characterization of CDNF-Secreting ARPE-19 Cell Clones for Encapsulated Cell Therapy. Cell Transplantation, 2019, 28, 413-424.	1.2	11
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