Nancy A Monteiro-Riviere

List of Publications by Year
in descending order

231 papers	16,807 citations	15495 65 h-index	16636 123 g-index
242 all docs	242 docs citations	242 times ranked	17264 citing authors

#	Article	IF	Citations
1	Principles for characterizing the potential human health effects from exposure to nanomaterials: elements of a screening strategy. Particle and Fibre Toxicology, 2005, 2, 8.	2.8	1,678
2	Multi-walled carbon nanotube interactions with human epidermal keratinocytes. Toxicology Letters, 2005, 155, 377-384.	0.4	702
3	Limitations and relative utility of screening assays to assess engineered nanoparticle toxicity in a human cell line. Toxicology and Applied Pharmacology, 2009, 234, 222-235.	1.3	538
4	UV photoprotection by combination topical antioxidants vitamin C and vitamin E. Journal of the American Academy of Dermatology, 2003, 48, 866-874.	0.6	522
5	Mechanisms of Quantum Dot Nanoparticle Cellular Uptake. Toxicological Sciences, 2009, 110, 138-155.	1.4	453
6	Penetration of Intact Skin by Quantum Dots with Diverse Physicochemical Properties. Toxicological Sciences, 2006, 91, 159-165.	1.4	451
7	Evaluation of Silver Nanoparticle Toxicity in Skin in Vivo and Keratinocytes in Vitro. Environmental Health Perspectives, 2010, 118, 407-413.	2.8	434
8	Safety Evaluation of Sunscreen Formulations Containing Titanium Dioxide and Zinc Oxide Nanoparticles in UVB Sunburned Skin: An In Vitro and In Vivo Study. Toxicological Sciences, 2011, 123, 264-280.	1.4	328
9	Challenges for assessing carbon nanomaterial toxicity to the skin. Carbon, 2006, 44, 1070-1078.	5.4	321
10	An index for characterization of nanomaterials in biological systems. Nature Nanotechnology, 2010, 5, 671-675.	15.6	317
11	Surface Coatings Determine Cytotoxicity and Irritation Potential of Quantum Dot Nanoparticles in Epidermal Keratinocytes. Journal of Investigative Dermatology, 2007, 127, 143-153.	0.3	316
12	Nanoceria as antioxidant: Synthesis and biomedical applications. Jom, 2008, 60, 33-37.	0.9	315
13	Effects of Mechanical Flexion on the Penetration of Fullerene Amino Acid-Derivatized Peptide Nanoparticles through Skin. Nano Letters, 2007, 7, 155-160.	4.5	300
14	Ferulic Acid Stabilizes a Solution of Vitamins C and E and Doubles its Photoprotection of Skin. Journal of Investigative Dermatology, 2005, 125, 826-832.	0.3	262
15	Biological interactions of quantum dot nanoparticles in skin and in human epidermal keratinocytes. Toxicology and Applied Pharmacology, 2008, 228, 200-211.	1.3	242
16	Nanoporous membranes for medical and biological applications. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2009, 1, 568-581.	3.3	222
17	Interspecies and Interregional Analysis of the Comparative Histologic Thickness and Laser Doppler Blood Flow Measurements at Five Cutaneous Sites in Nine Species. Journal of Investigative Dermatology, 1990, 95, 582-586.	0.3	201
18	Two Photon Polymerization of Polymer?Ceramic Hybrid Materials for Transdermal Drug Delivery. International Journal of Applied Ceramic Technology, 2007, 4, 22-29.	1.1	200

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19	Biological Interactions of Functionalized Single-Wall Carbon Nanotubes in Human Epidermal Keratinocytes. International Journal of Toxicology, 2007, 26, 103-113.	0.6	182
20	Pharmacokinetics of metallic nanoparticles. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2015, 7, 189-217.	3.3	178
21	Towards an in vivo biologically inspired nanofactory. Nature Nanotechnology, 2007, 2, 3-7.	15.6	172
22	Assessment of Quantum Dot Penetration into Intact, Tape-Stripped, Abraded and Flexed Rat Skin. Skin Pharmacology and Physiology, 2008, 21, 166-180.	1.1	170
23	The isolated perfused porcine skin flap (IPPSF) I. A novel in vitro model for percutaneous absorption and cutaneous toxicology studies. Fundamental and Applied Toxicology, 1986, 7, 444-453.	1.9	157
24	Meta-Analysis of Nanoparticle Delivery to Tumors Using a Physiologically Based Pharmacokinetic Modeling and Simulation Approach. ACS Nano, 2020, 14, 3075-3095.	7.3	157
25	Variables Influencing Interactions of Untargeted Quantum Dot Nanoparticles with Skin Cells and Identification of Biochemical Modulators. Nano Letters, 2007, 7, 1344-1348.	4.5	151
26	Topical L-Ascorbic Acid: Percutaneous Absorption Studies. Dermatologic Surgery, 2001, 27, 137-142.	0.4	144
27	Antibacterial efficacy of silver nanoparticles of different sizes, surface conditions and synthesis methods. Nanotoxicology, 2011, 5, 244-253.	1.6	143
28	Fullerene-based amino acid nanoparticle interactions with human epidermal keratinocytes. Toxicology in Vitro, 2006, 20, 1313-1320.	1.1	132
29	Mapping the Surface Adsorption Forces of Nanomaterials in Biological Systems. ACS Nano, 2011, 5, 9074-9081.	7.3	131
30	Surfactant effects on carbon nanotube interactions with human keratinocytes. Nanomedicine: Nanotechnology, Biology, and Medicine, 2005, 1, 293-299.	1.7	120
31	Multi-walled carbon nanotube exposure alters protein expression in human keratinocytes. Nanomedicine: Nanotechnology, Biology, and Medicine, 2006, 2, 158-168.	1.7	120
32	The effects of geometry on skin penetration and failure of polymer microneedles. Journal of Adhesion Science and Technology, 2013, 27, 227-243.	1.4	118
33	Protein binding modulates the cellular uptake of silver nanoparticles into human cells: Implications for in vitro to in vivo extrapolations?. Toxicology Letters, 2013, 220, 286-293.	0.4	113
34	Quantum dot penetration into viable human skin. Nanotoxicology, 2012, 6, 173-185.	1.6	105
35	Silver nanoparticles do not influence stem cell differentiation but cause minimal toxicity. Nanomedicine, 2012, 7, 1197-1209.	1.7	105
36	Surface chemistry of gold nanoparticles determines the biocorona composition impacting cellular uptake, toxicity and gene expression profiles in human endothelial cells. Nanotoxicology, 2017, 11, 507-519.	1.6	102

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37	Protein corona modulation of hepatocyte uptake and molecular mechanisms of gold nanoparticle toxicity. Nanotoxicology, 2017, 11, 64-75.	1.6	101
38	Fabrication of Polymer Microneedles Using a Two-Photon Polymerization and Micromolding Process. Journal of Diabetes Science and Technology, 2009, 3, 304-311.	1.3	100
39	Integrated carbon fiber electrodes within hollow polymer microneedles for transdermal electrochemical sensing. Biomicrofluidics, 2011, 5, 13415.	1.2	96
40	Gold and silver nanoparticle interactions with human proteins: impact and implications in biocorona formation. Journal of Materials Chemistry B, 2015, 3, 2075-2082.	2.9	96
41	Development, optimization, and characterization of electrospun poly(lactic acid) nanofibers containing multi-walled carbon nanotubes. Journal of Applied Polymer Science, 2007, 105, 1668-1678.	1.3	92
42	A computational framework for interspecies pharmacokinetics, exposure and toxicity assessment of gold nanoparticles. Nanomedicine, 2016, 11, 107-119.	1.7	91
43	A linear dilution microfluidic device for cytotoxicity assays. Lab on A Chip, 2007, 7, 226-232.	3.1	90
44	Ultrastructural characterization of the nasal respiratory epithelium in the rat. American Journal of Anatomy, 1984, 169, 31-43.	0.9	88
45	The Isolated Perfused Porcine Skin Flap as anIn VitroModel for Percutaneous Absorption and Cutaneous Toxicology. Critical Reviews in Toxicology, 1991, 21, 329-344.	1.9	88
46	Trace analysis of fullerenes in biological samples by simplified liquidâ€“liquid extraction and high-performance liquid chromatography. Journal of Chromatography A, 2006, 1129, 216-222.	1.8	88
47	Skin penetration and kinetics of pristine fullerenes (C60) topically exposed in industrial organic solvents. Toxicology and Applied Pharmacology, 2010, 242, 29-37.	1.3	88
48	Cellular uptake mechanisms and toxicity of quantum dots in dendritic cells. Nanomedicine, 2011, 6, 777-791.	1.7	88
49	Mechanisms of cell uptake, inflammatory potential and protein corona effects with gold nanoparticles. Nanomedicine, 2016, 11, 3185-3203.	1.7	87
50	Identification of the pathway of iontophoretic drug delivery: light and ultrastructural studies using mercuric chloride in pigs. Pharmaceutical Research, 1994, 11, 251-256.	1.7	81
51	A Physiologically Based Pharmacokinetic Model of Organophosphate Dermal Absorption. Toxicological Sciences, 2006, 89, 188-204.	1.4	80
52	Oxidative Stress and Dermal Toxicity of Iron Oxide Nanoparticles In Vitro. Cell Biochemistry and Biophysics, 2013, 67, 461-476.	0.9	80
53	Bacterial endotoxin (lipopolysaccharide) binds to the surface of gold nanoparticles, interferes with biocorona formation and induces human monocyte inflammatory activation. Nanotoxicology, 2017, 11, 1157-1175.	1.6	80
54	Biological Properties of Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2007, 7, 1284-1297.	0.9	80

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55	Pulsatile transdermal delivery of LHRH using electroporation: Drug delivery and skin toxicology. Journal of Controlled Release, 1995, 36, 229-233.	4.8	77
56	Comparison of Quantum Dot Biodistribution with a Blood-Flow-Limited Physiologically Based Pharmacokinetic Model. Nano Letters, 2009, 9, 794-799.	4.5	76
57	Dermal Absorption and Distribution of Topically Dosed Jet Fuels Jet-A, JP-8, and JP-8(100). Toxicology and Applied Pharmacology, 1999, 160, 60-75.	1.3	75
58	Electron Microscopic Observations of Stratum Corneum Intercellular Lipids in Normal and Atopic Dogs. Veterinary Pathology, 2001, 38, 720-723.	0.8	75
59	Biodistribution of Quantum Dot Nanoparticles in Perfused Skin:â€‰ Evidence of Coating Dependency and Periodicity in Arterial Extraction. Nano Letters, 2007, 7, 2865-2870.	4.5	73
60	Predicting skin permeability from complex vehicles. Advanced Drug Delivery Reviews, 2013, 65, 265-277.	6.6	71
61	Endocytic mechanisms and toxicity of a functionalized fullerene in human cells. Toxicology Letters, 2009, 191, 149-157.	0.4	70
62	Pulsed laser deposition of antimicrobial silver coating on OrmocerÂ® microneedles. Biofabrication, 2009, 1, 041001.	3.7	70
63	Multiphoton microscopy of transdermal quantum dot delivery using two photonpolymerization-fabricated polymer microneedles. Faraday Discussions, 2011, 149, 171-185.	1.6	70
64	Identification of early biomarkers of inflammation produced by keratinocytes exposed to jet fuels jet A, JP-8, and JP-8(100). Journal of Biochemical and Molecular Toxicology, 2000, 14, 231-237.	1.4	65
65	Biomedical applications of gold nanomaterials: opportunities and challenges. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2015, 7, 779-796.	3.3	65
66	Topical penetration of piroxicam is dependent on the distribution of the local cutaneous vasculature. Pharmaceutical Research, 1993, 10, 1326-1331.	1.7	63
67	Interactions of aluminum nanoparticles with human epidermal keratinocytes. Journal of Applied Toxicology, 2010, 30, 276-285.	1.4	62
68	In vitro biocompatibility of titanium alloy discs made using direct metal fabrication. Medical Engineering and Physics, 2010, 32, 645-652.	0.8	62
69	Two Photon Polymerizationâ€Micromolding of Polyethylene Glycolâ€Gentamicin Sulfate Microneedles. Advanced Engineering Materials, 2010, 12, B77-B82.	1.6	60
70	Assessment of sulfur mustard interaction with basement membrane components. Cell Biology and Toxicology, 1995, 11, 89-101.	2.4	59
71	A physiologically based pharmacokinetic model for polyethylene glycol-coated gold nanoparticles of different sizes in adult mice. Nanotoxicology, 2016, 10, 1-11.	1.6	59
72	Deposition of antimicrobial coatings on microstereolithography-fabricated microneedles. Jom, 2011, 63, 59-68.	0.9	58

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73	Comparison of an in vitro skin model to normal human skin for dermatological research. , 1997, 37, 172-179.		57
74	Modification of microneedles using inkjet printing. AIP Advances, 2011, 1, 22139.	0.6	57
75	Determination of lidocaine concentrations in skin after transdermal iontophoresis: effects of vasoactive drugs. Pharmaceutical Research, 1992, 09, 211-214.	1.7	56
76	Topical isoflavones provide effective photoprotection to skin. Photodermatology Photoimmunology and Photomedicine, 2008, 24, 61-66.	0.7	56
77	Fabrication of Microneedles Using Two Photon Polymerization for Transdermal Delivery of Nanomaterials. Journal of Nanoscience and Nanotechnology, 2010, 10, 6305-6312.	0.9	52
78	Effect of selective lipid extraction from different body regions on epidermal barrier function. Pharmaceutical Research, 2001, 18, 992-998.	1.7	51
79	Altered epidermal morphology secondary to lidocaine iontophoresis: In vivo and in vitro studies in porcine skin. Fundamental and Applied Toxicology, 1990, 15, 174-185.	1.9	50
80	In vitro toxicity assessment of three hydroxylated fullerenes in human skin cells. Toxicology in Vitro, 2011, 25, 2105-2112.	1.1	50
81	Assessing the safety of cosmetic chemicals: Consideration of a flux decision tree to predict dermally delivered systemic dose for comparison with oral TTC (Threshold of Toxicological Concern). Regulatory Toxicology and Pharmacology, 2016, 76, 174-186.	1.3	50
82	Biocorona formation on gold nanoparticles modulates human proximal tubule kidney cell uptake, cytotoxicity and gene expression. Toxicology in Vitro, 2017, 42, 150-160.	1.1	50
83	Characterization of microfluidic human epidermal keratinocyte culture. Cytotechnology, 2008, 56, 197-207.	0.7	48
84	Predicting the impact of biocorona formation kinetics on interspecies extrapolations of nanoparticle biodistribution modeling. Nanomedicine, 2015, 10, 25-33.	1.7	48
85	Effects of short-term high-dose and low-dose dermal exposure to Jet A, JP-8 and JP-8 + 100 jet fuels. Journal of Applied Toxicology, 2001, 21, 485-494.	1.4	47
86	Ubiquinone, Idebenone, and Kinetin Provide Ineffective Photoprotection to Skin when Compared to a Topical Antioxidant Combination of Vitamins C and E with Ferulic Acid. Journal of Investigative Dermatology, 2006, 126, 1185-1187.	0.3	46
87	Cytokine induction as a measure of cutaneous toxicity in primary and immortalized porcine keratinocytes exposed to jet fuels, and their relationship to normal human epidermal keratinocytes. Toxicology Letters, 2001, 119, 209-217.	0.4	45
88	The cytotoxicity of jet fuel aromatic hydrocarbons and dose-related interleukin-8 release from human epidermal keratinocytes. Archives of Toxicology, 2003, 77, 384-391.	1.9	44
89	Comparison of Integrins in Human Skin, Pig Skin, and Perfused Skin: AnIn VitroSkin Toxicology Model. , 1997, 17, 247-253.		43
90	Expression of proinflammatory cytokines by human mesenchymal stem cells in response to cyclic tensile strain. Journal of Cellular Physiology, 2009, 219, 77-83.	2.0	43

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91	Use of confocal microscopy for nanoparticle drug delivery through skin. Journal of Biomedical Optics, 2012, 18, 061214.	1.4	43
92	Interaction of nanomaterials with skin: Aspects of absorption and biodistribution. Nanotoxicology, 2009, 3, 188-193.	1.6	42
93	Rapid prototyping of scaphoid and lunate bones. Biotechnology Journal, 2009, 4, 129-134.	1.8	42
94	The Use of Mechanistically Defined Chemical Mixtures (MDCM) to Assess Component Effects on the Percutaneous Absorption and Cutaneous Disposition of Topically Exposed Chemicals.. Toxicology and Applied Pharmacology, 1996, 141, 473-486.	1.3	41
95	Evaluation of protective effects of sodium thiosulfate, cysteine, niacinamide and indomethacin on sulfur mustard-treated isolated perfused porcine skin. Chemico-Biological Interactions, 1995, 96, 249-262.	1.7	40
96	Differential Relationship between the Carbon Chain Length of Jet Fuel Aliphatic Hydrocarbons and Their Ability to Induce Cytotoxicity vs. Interleukin-8 Release in Human Epidermal Keratinocytes. Toxicological Sciences, 2002, 69, 226-233.	1.4	40
97	Assessing the antimicrobial activity of zinc oxide thin films using disk diffusion and biofilm reactor. Applied Surface Science, 2009, 255, 5806-5811.	3.1	40
98	Ultrastructure of the Integument of the Domestic Pig (Sus scroh) from One through Fourteen Weeks of Age. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 1985, 14, 97-115.	0.3	39
99	Intrinsic biological property of colloidal fullerene nanoparticles (nC60): Lack of lethality after high dose exposure to human epidermal and bacterial cells. Toxicology Letters, 2010, 197, 128-134.	0.4	39
100	Predicting Nanoparticle Delivery to Tumors Using Machine Learning and Artificial Intelligence Approaches. International Journal of Nanomedicine, 2022, Volume 17, 1365-1379.	3.3	39
101	Canine epidermolysis bullosa acquisita: circulating autoantibodies target the aminoterminal non-collagenous (NC1) domain of collagen VII in anchoring fibrils. Veterinary Dermatology, 1998, 9, 19-31.	0.4	38
102	Skin toxicity of jet fuels: ultrastructural studies and the effects of substance P. Toxicology and Applied Pharmacology, 2004, 195, 339-347.	1.3	38
103	Atomic layer deposition of TiO2 thin films on nanoporous alumina templates: Medical applications. Jom, 2009, 61, 12-16.	0.9	38
104	The Pig as a Model for Cutaneous Pharmacology and Toxicology Research. , 1996, , 425-458.		38
105	Toxicokinetics of Topical Sulfur Mustard Penetration, Disposition, and Vascular Toxicity in Isolated Perfused Porcine Skin. Toxicology and Applied Pharmacology, 1995, 135, 25-34.	1.3	37
106	Cutaneous toxicity of 2-chloroethyl methyl sulfide in isolated perfused porcine skin. Toxicology and Applied Pharmacology, 1990, 104, 167-179.	1.3	36
107	Use of methyl salicylate as a simulant to predict the percutaneous absorption of sulfur mustard. Journal of Applied Toxicology, 2001, 21, 91-99.	1.4	36
108	Indirect Immunohistochemistry and Immunoelectron Microscopy Distribution of Eight Epidermal-Dermal Junction Epitopes in the Pig and in Isolated Perfused Skin Treated with Bis (2-Chloroethyl) Sulfide. Toxicologic Pathology, 1995, 23, 313-325.	0.9	35

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109	Comparative In Vivo Toxicity of Topical JP-8 Jet Fuel and Its Individual Hydrocarbon Components: Identification of Tridecane and Tetradecane as Key Constituents Responsible for Dermal Irritation. Toxicologic Pathology, 2005, 33, 258-266.	0.9	35
110	Atomic layer deposition-based functionalization of materials for medical and environmental health applications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2033-2064.	1.6	35
111	Ultrastructural evaluation of acute nasal toxicity in the rat respiratory epithelium in response to formaldehyde gas. Fundamental and Applied Toxicology, 1986, 6, 251-262.	1.9	33
112	Transdermal iontophoretic delivery of luteinizing hormone releasing hormone (LHRH): effect of repeated administration. Pharmaceutical Research, 1994, 11, 1000-1003.	1.7	33
113	Pyridostigmine bromide modulates topical irritant-induced cytokine release from human epidermal keratinocytes and isolated perfused porcine skin. Toxicology, 2003, 183, 15-28.	2.0	33
114	Atomic layer deposition of nanoporous biomaterials. Materials Today, 2010, 13, 60-64.	8.3	33
115	On the definition of viability in isolated perfused skin preparations. British Journal of Dermatology, 1987, 116, 739-741.	1.4	31
116	Immunohistochemical characterization of the basement membrane epitopes in bis(2-chloroethyl) sulfide-induced toxicity in mouse ear skin. Journal of Applied Toxicology, 1999, 19, 313-328.	1.4	31
117	Nanoparticle Surface Characterization and Clustering through Concentration-Dependent Surface Adsorption Modeling. ACS Nano, 2014, 8, 9446-9456.	7.3	31
118	Ultrastructural characterization of sulfur mustard-induced vesication in isolated perfused porcine skin. Microscopy Research and Technique, 1997, 37, 229-241.	1.2	30
119	Percutaneous Absorption of Topical N , N -Diethyl- m -Toluamide (Deet): Effects of Exposure Variables and Coadministered Toxicants. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2003, 66, 133-151.	1.1	30
120	An experimentally based approach for predicting skin permeability of chemicals and drugs using a membrane-coated fiber array. Toxicology and Applied Pharmacology, 2007, 221, 320-328.	1.3	30
121	Cyclic tensile strain increases interactions between human epidermal keratinocytes and quantum dot nanoparticles. Toxicology in Vitro, 2008, 22, 491-497.	1.1	30
122	Laser Doppler measurements of cutaneous blood flow in ageing mice and rats. Toxicology Letters, 1991, 57, 329-338.	0.4	29
123	Cutaneous toxicity and absorption of paraquat in porcine skin. Toxicology and Applied Pharmacology, 1992, 115, 89-97.	1.3	29
124	Analysis of interleukin-8 release from normal human epidermal keratinocytes exposed to aliphatic hydrocarbons: delivery of hydrocarbons to cell cultures via complexation with Î±-cyclodextrin. Toxicology in Vitro, 2001, 15, 663-669.	1.1	29
125	Toxicology of the Skin. , 0, , .		28
126	Efficacy of topical phenol decontamination strategies on severity of acute phenol chemical burns and dermal absorption: in vitro and in vivo studies in pig skin. Toxicology and Industrial Health, 2001, 17, 95-104.	0.6	27

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127	Atomic layer deposition of titanium dioxide on cellulose acetate for enhanced hemostasis. Biotechnology Journal, 2011, 6, 213-223.	1.8	27
128	Enzymatic and immunohistochemical studies on the role of cytochrome P450 and the flavin-containing monooxygenase of mouse skin in the metabolism of pesticides and other xenobiotics. Pesticide Biochemistry and Physiology, 1992, 43, 53-66.	1.6	26
129	Probabilistic risk assessment of gold nanoparticles after intravenous administration by integrating in vitro and in vivo toxicity with physiologically based pharmacokinetic modeling. Nanotoxicology, 2018, 12, 453-469.	1.6	26
130	Characterization of lewisite toxicity in isolated perfused skin. Toxicology and Applied Pharmacology, 1992, 116, 189-201.	1.3	25
131	Temperature Regulation and Metabolism in Rats Exposed Perinatally to Dioxin: Permanent Change in Regulated Body Temperature?. Toxicology and Applied Pharmacology, 1995, 133, 172-176.	1.3	25
132	Comparative in vitro percutaneous absorption of nonylphenol and nonylphenol ethoxylates (NPE-4) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.6	25
133	Laminin in the Cutaneous Basement Membrane as a Potential Target in Lewisite Vesication. Toxicology and Applied Pharmacology, 1994, 126, 164-173.	1.3	24
134	Pyridostigmine Bromide Modulates the Dermal Disposition of [14C]Permethrin. Toxicology and Applied Pharmacology, 2002, 181, 164-173.	1.3	24
135	Comparison of the effect of sn-1,2-didecanoylglycerol and 12-O-tetradecanoylphorbol-13-acetate on cutaneous morphology, inflammation and tumor promotion in CD-1 mice. Carcinogenesis, 1988, 9, 2221-2226.	1.3	23
136	A system coefficient approach for quantitative assessment of the solvent effects on membrane absorption from chemical mixtures. SAR and QSAR in Environmental Research, 2007, 18, 579-593.	1.0	22
137	A novel in-vitro technique for studying percutaneous permeation with a membrane-coated fiber and gas chromatography/mass spectrometry: part I. Performances of the technique and determination of the permeation rates and partition coefficients of chemical mixtures. Pharmaceutical Research, 2003, 20, 275-282.	1.7	21
138	Effect of In Vivo Jet Fuel Exposure on Subsequent In Vitro Dermal Absorption of Individual Aromatic and Aliphatic Hydrocarbon Fuel Constituents. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2005, 68, 719-737.	1.1	21
139	Nanomaterials and synergistic lowâ€intensity direct current (LIDC) stimulation technology for orthopedic implantable medical devices. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2013, 5, 191-204.	3.3	21
140	Macroscopic, Microscopic, and Ultrastructural Anatomy of the Nasal Cavity, Rat. Monographs on Pathology of Laboratory Animals, 1985, , 3-10.	0.0	20
141	Lectins modulate multi-walled carbon nanotubes cellular uptake in human epidermal keratinocytes. Toxicology in Vitro, 2010, 24, 546-551.	1.1	20
142	Intracellular imaging of quantum dots, gold, and iron oxide nanoparticles with associated endocytic pathways. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2017, 9, e1419.	3.3	20
143	Î±-Lipoic Acid Is Ineffective as a Topical Antioxidant for Photoprotection of Skin11This work was done in Durham, North Carolina, USA.. Journal of Investigative Dermatology, 2004, 123, 996-998.	0.3	19
144	Lack of Hydroxylated Fullerene Toxicity After Intravenous Administration to Female Sprague-Dawley Rats. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2012, 75, 367-373.	1.1	19

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145	Transdermal Lidocaine Iontophoresis in Isolated Perfused Porcine Skin. Cutaneous and Ocular Toxicology, 1989, 8, 493-504.	0.3	18
146	Computational approaches and metrics required for formulating biologically realistic nanomaterial pharmacokinetic models. Computational Science & Discovery, 2013, 6, 014005.	1.5	18
147	The Use of Mechanistically Defined Chemical Mixtures (MDCM) to Assess Mixture Component Effects on the Percutaneous Absorption and Cutaneous Disposition of Topically Exposed Chemicals. Toxicology and Applied Pharmacology, 1996, 141, 487-496.	1.3	17
148	Gulf War related exposure factors influencing topical absorption of 14C-permethrin. Toxicology Letters, 2002, 135, 61-71.	0.4	17
149	Quantification of nanoparticle pesticide adsorption: computational approaches based on experimental data. Nanotoxicology, 2016, 10, 1118-1128.	1.6	17
150	Cutaneous toxicity of the benzidine dye direct red 28 applied as mechanistically-defined chemical mixtures (MDCM) in perfused porcine skin. Toxicology Letters, 1997, 93, 159-169.	0.4	16
151	Dermatotoxicity of Cutting Fluid Mixtures:In VitroandIn VivoStudies. Cutaneous and Ocular Toxicology, 2006, 25, 235-247.	0.5	16
152	In Vitro Biocompatibility and Antibacterial Efficacy of a Degradable Poly(l-lactide-co-epsilon-caprolactone) Copolymer Incorporated with Silver Nanoparticles. Annals of Biomedical Engineering, 2014, 42, 1482-1493.	1.3	16
153	Toxicity assessment of six titanium dioxide nanoparticles in human epidermal keratinocytes. Cutaneous and Ocular Toxicology, 2019, 38, 66-80.	0.5	16
154	Pathogenesis of acute ulceration response (AUR) in hybrid striped bass. Diseases of Aquatic Organisms, 2004, 61, 199-213.	0.5	16
155	Modeling gold nanoparticle biodistribution after arterial infusion into perfused tissue: effects of surface coating, size and protein corona. Nanotoxicology, 2018, 12, 1093-1112.	1.6	15
156	Development of a multi-route physiologically based pharmacokinetic (PBPK) model for nanomaterials: a comparison between a traditional versus a new route-specific approach using gold nanoparticles in rats. Particle and Fibre Toxicology, 2022, 19, .	2.8	15
157	The Isolated Perfused Equine Skin Flap Preparation and Metabolic Parameters. Veterinary Surgery, 1991, 20, 424-433.	0.5	14
158	Toxicity of jet fuel aliphatic and aromatic hydrocarbon mixtures on human epidermal Keratinocytes: evaluation based on in vitro cytotoxicity and interleukin-8 release. Archives of Toxicology, 2006, 80, 508-523.	1.9	14
159	Evaluation of perfused porcine skin as a model system to quantitate tissue distribution of fullerene nanoparticles. Toxicology Letters, 2010, 197, 1-6.	0.4	14
160	Biocorona Bound Gold Nanoparticles Augment Their Hematocompatibility Irrespective of Size or Surface Charge. ACS Biomaterials Science and Engineering, 2016, 2, 1608-1618.	2.6	14
161	Oxidative stress response in canine in vitro liver, kidney and intestinal models with seven potential dietary ingredients. Toxicology Letters, 2016, 241, 49-59.	0.4	14
162	Human Health Risks of Engineered Nanomaterials. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 3-29.	0.1	14

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163	Introduction to histological aspects of dermatotoxicology. Microscopy Research and Technique, 1997, 37, 171-171.	1.2	13
164	Mechanical and biological properties of nanoporous carbon membranes. Biomedical Materials (Bristol), 2008, 3, 034107.	1.7	13
165	In vitro biodistribution of silver nanoparticles in isolated perfused porcine skin flaps. Journal of Applied Toxicology, 2012, 32, 913-919.	1.4	13
166	Biocompatibility analysis of an electrically-activated silver-based antibacterial surface system for medical device applications. Journal of Materials Science: Materials in Medicine, 2013, 24, 755-760.	1.7	13
167	Dose-response studies of gentamicin nephrotoxicity in rats with experimental renal dysfunction. Toxicology and Applied Pharmacology, 1985, 80, 264-273.	1.3	12
168	Effects of organic solvent vehicles on the viability and morphology of isolated perfused porcine skin. Toxicology, 1991, 69, 11-26.	2.0	12
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