Kee Woei Ng

List of Publications by Year in Descending Order

130 papers	6,574 citations	41 h-index	79 g-index
137 ext. papers	7,438 ext. citations	7 avg, IF	5.73 L-index

#	Paper	IF	Citations
130	Printer center nanoparticles alter the DNA repair capacity of human bronchial airway epithelial cells.. *NanoImpact*, **2022**, 25, 100379	5.6	3
129	Development of a mechanically stable human hair keratin film for cell culture. *Materials Today Communications*, **2022**, 30, 103049	2.5	0
128	Anisotropic hair keratin-dopamine composite scaffolds exhibit strain-stiffening properties. *Journal of Biomedical Materials Research - Part A*, **2022**, 110, 92-104	5.4	1
127	Development of reconstructed intestinal micronucleus cytome (RICyt) assay in 3D human gut model for genotoxicity assessment of orally ingested substances.. *Archives of Toxicology*, **2022**, 96, 1455	5.8	
126	Association of nanoparticle exposure with serum metabolic disorders of healthy adults in printing centers.. *Journal of Hazardous Materials*, **2022**, 432, 128710	12.8	2
125	Enzyme- and Relative Humidity-Responsive Antimicrobial Fibers for Active Food Packaging. *ACS Applied Materials & Interfaces*, **2021**, 13, 50298-50308	9.5	5
124	Chronic upper airway and systemic inflammation from copier emitted particles in healthy operators at six Singaporean workplaces.. *NanoImpact*, **2021**, 22, 100325	5.6	3
123	Ultrasonic Implantation and Imaging of Sound-Sensitive Theranostic Agents for the Treatment of Arterial Inflammation. *ACS Applied Materials & Interfaces*, **2021**, 13, 24422-24430	9.5	3
122	Synergistic Effect of PVDF-Coated PCL-TCP Scaffolds and Pulsed Electromagnetic Field on Osteogenesis. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
121	Characterization of Anisotropic Human Hair Keratin Scaffolds Fabricated via Directed Ice Templating. *Macromolecular Bioscience*, **2021**, 21, e2000314	5.5	5
120	Self-Assembly of Solubilized Human Hair Keratins. *ACS Biomaterials Science and Engineering*, **2021**, 7, 83-89	5.5	3
119	Effects of ingested nanocellulose and nanochitosan materials on carbohydrate digestion and absorption in an in vitro small intestinal epithelium model. *Environmental Science: Nano*, **2021**, 8, 2554-2568	7.1	1
118	High-Throughput Screening Platform for Nanoparticle-Mediated Alterations of DNA Repair Capacity. *ACS Nano*, **2021**, 15, 4728-4746	16.7	7
117	Fate, cytotoxicity and cellular metabolomic impact of ingested nanoscale carbon dots using simulated digestion and a triculture small intestinal epithelial model. *NanoImpact*, **2021**, 23, 100349-100349	5.6	2
116	Effects of Pulsed Electromagnetic Field Intensity on Mesenchymal Stem Cells. *Bioelectricity*, **2021**, 3, 186-196	2	0
115	Anti-inflammatory potential of simvastatin loaded nanoliposomes in 2D and 3D foam cell models. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2021**, 37, 102434	6	0
114	BiOClBr-coated fabrics with enhanced antimicrobial properties under ambient light. *Journal of Materials Chemistry B*, **2021**, 9, 3079-3087	7.3	3

113	Composite Hydrogels in Three-Dimensional Models. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 611	5.8	28
112	Transformation of Nanomaterials and Its Implications in Gut Nanotoxicology. *Small*, **2020**, 16, e2001246	11	9
111	Enhancing Agrichemical Delivery and Seedling Development with Biodegradable, Tunable, Biopolymer-Based Nanofiber Seed Coatings. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 9537-9548	8.3	29
110	Liposomal Nanotherapy for Treatment of Atherosclerosis. *Advanced Healthcare Materials*, **2020**, 9, e2000465	10.1	10
109	Occupational Inhalation Exposures to Nanoparticles at Six Singapore Printing Centers. *Environmental Science & Technology*, **2020**, 54, 2389-2400	10.3	16
108	Inflammation Increases Susceptibility of Human Small Airway Epithelial Cells to Pneumonic Nanotoxicity. *Small*, **2020**, 16, e2000963	11	10
107	Physicochemical and Morphological Transformations of Chitosan Nanoparticles across the Gastrointestinal Tract and Cellular Toxicity in an In Vitro Model of the Small Intestinal Epithelium. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 358-368	5.7	16
106	Peptide-protein coassembling matrices as a biomimetic 3D model of ovarian cancer. *Science Advances*, **2020**, 6,	14.3	25
105	Potent-By-Design: Amino Acids Mimicking Porous Nanotherapeutics with Intrinsic Anticancer Targeting Properties. *Small*, **2020**, 16, e2003757	11	10
104	Hydroxyapatite Particles Induced Modulation of Collagen Expression and Secretion in Primary Human Dermal Fibroblasts. *International Journal of Nanomedicine*, **2020**, 15, 4943-4956	7.3	0
103	Cryogelation of Human Hair Keratins. *Macromolecular Rapid Communications*, **2020**, 41, e2000254	4.8	8
102	Pilot deep RNA sequencing of worker blood samples from Singapore printing industry for occupational risk assessment. *NanoImpact*, **2020**, 19, 100248-100248	5.6	5
101	Development of Biodegradable and Antimicrobial Electrospun Zein Fibers for Food Packaging. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 15354-15365	8.3	30
100	The protein corona determines the cytotoxicity of nanodiamonds: implications of corona formation and its remodelling on nanodiamond applications in biomedical imaging and drug delivery. *Nanoscale Advances*, **2020**, 2, 4798-4812	5.1	9
99	A high-throughput method to characterize the gut bacteria growth upon engineered nanomaterial treatment. *Environmental Science: Nano*, **2020**, 7, 3155-3166	7.1	1
98	Biological impact of nanodiamond particles - label free, high-resolution methods for nanotoxicity assessment. *Nanotoxicology*, **2019**, 13, 1210-1226	5.3	5
97	Pomegranate activates TFEB to promote autophagy-lysosomal fitness and mitophagy. *Scientific Reports*, **2019**, 9, 727	4.9	29
96	Toxicological effects of ingested nanocellulose in in vitro intestinal epithelium and in vivo rat models. *Environmental Science: Nano*, **2019**, 6, 2105-2115	7.1	57

95	Healing of Chronic Wounds: An Update of Recent Developments and Future Possibilities. *Tissue Engineering - Part B: Reviews*, **2019**, 25, 429-444	7.9	37
94	Co-exposure to the food additives SiO (E551) or TiO (E171) and the pesticide boscalid increases cytotoxicity and bioavailability of the pesticide in a tri-culture small intestinal epithelium model: Potential health implications. *Environmental Science: Nano*, **2019**, 6, 2786-2800	7.1	21
93	Understanding the implications of engineered nanoparticle induced autophagy in human epidermal keratinocytes in vitro. *NanoImpact*, **2019**, 15, 100177	5.6	4
92	Enhanced performance of chitosan/keratin membranes with potential application in peripheral nerve repair. *Biomaterials Science*, **2019**, 7, 5451-5466	7.4	18
91	Integrated Transcriptomics, Metabolomics, and Lipidomics Profiling in Rat Lung, Blood, and Serum for Assessment of Laser Printer-Emitted Nanoparticle Inhalation Exposure-Induced Disease Risks. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	17
90	Hydrodynamically Guided Hierarchical Self-Assembly of Peptide–Protein Bioinks. *Advanced Functional Materials*, **2018**, 28, 1703716	15.6	59
89	Studies on the Proteome of Human Hair - Identification of Histones and Deamidated Keratins. *Scientific Reports*, **2018**, 8, 1599	4.9	27
88	Evaluating the antioxidant effects of human hair protein extracts. *Journal of Biomaterials Science, Polymer Edition*, **2018**, 29, 1081-1093	3.5	6
87	Comparative differences in the behavior of TiO2 and SiO2 food additives in food ingredient solutions. *Journal of Nanoparticle Research*, **2018**, 20, 1	2.3	13
86	Mesenchymal Stem Cell Secretome Improves Tendon Cell Viability In Vitro and Tendon-Bone Healing In Vivo When a Tissue Engineering Strategy Is Used in a Rat Model of Chronic Massive Rotator Cuff Tear. *American Journal of Sports Medicine*, **2018**, 46, 449-459	6.8	39
85	Visible light crosslinkable human hair keratin hydrogels. *Bioengineering and Translational Medicine*, **2018**, 3, 37-48	14.8	38
84	Identification of Antibacterial Components in Human Hair Shafts. *Acta Dermato-Venereologica*, **2018**, 98, 708-710	2.2	2
83	Reducing Intestinal Digestion and Absorption of Fat Using a Nature-Derived Biopolymer: Interference of Triglyceride Hydrolysis by Nanocellulose. *ACS Nano*, **2018**, 12, 6469-6479	16.7	99
82	Human keratinocytes adapt to ZnO nanoparticles induced toxicity via complex paracrine crosstalk and Nrf2-proteasomal signal transduction. *Nanotoxicology*, **2018**, 12, 1215-1229	5.3	18
81	The Potential of Fluocinolone Acetonide to Mitigate Inflammation and Lipid Accumulation in 2D and 3D Foam Cell Cultures. *BioMed Research International*, **2018**, 2018, 3739251	3	9
80	Inhaled nanomaterials and the respiratory microbiome: clinical, immunological and toxicological perspectives. *Particle and Fibre Toxicology*, **2018**, 15, 46	8.4	49
79	Biomolecular interaction and kinematics differences between P25 and E171 TiO2 nanoparticles. *NanoImpact*, **2018**, 12, 51-57	5.6	8
78	Bacteria Display Differential Growth and Adhesion Characteristics on Human Hair Shafts. *Frontiers in Microbiology*, **2018**, 9, 2145	5.7	8

77	Design and in vitro release study of siRNA loaded Layer by Layer nanoparticles with sustained gene silencing effect. *Expert Opinion on Drug Delivery*, **2018**, 15, 937-949	8	6
76	Fabrication and characterization of a novel crosslinked human keratin-alginate sponge. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 2590-2602	4.4	27
75	Effects of hardness of steel on ceramic armour module against long rod impact. *International Journal of Impact Engineering*, **2017**, 109, 419-426	4	23
74	Engineered nanoparticles for the detection, treatment and prevention of atherosclerosis: how close are we?. *Drug Discovery Today*, **2017**, 22, 1438-1446	8.8	14
73	Human Hair Keratin for Biocompatible Flexible and Transient Electronic Devices. *ACS Applied Materials & Interfaces*, **2017**, 9, 43004-43012	9.5	51
72	Cultivation of human dermal fibroblasts and epidermal keratinocytes on keratin-coated silica bead substrates. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 2789-2798	5.4	7
71	Photocrosslinkable Gelatin Hydrogel for Epidermal Tissue Engineering. *Advanced Healthcare Materials*, **2016**, 5, 108-18	10.1	407
70	Electrospun 3D multi-scale fibrous scaffold for enhanced human dermal fibroblast infiltration. *International Journal of Bioprinting*, **2016**, 2,	6.2	7
69	TiO2 nanoparticles alleviate toxicity by reducing free Zn2+ ion in human primary epidermal keratinocytes exposed to ZnO nanoparticles. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	7
68	The multi-facets of sustainable nanotechnology - Lessons from a nanosafety symposium. *Nanotoxicology*, **2015**, 9, 404-6	5.3	7
67	Macroporous carbon from human hair: A journey towards the fabrication of high energy Li-ion capacitors. *Electrochimica Acta*, **2015**, 182, 474-481	6.7	37
66	TiO2-nanoparticles shield HPEKs against ZnO-induced genotoxicity. *Materials and Design*, **2015**, 88, 41-50	8.1	4
65	Early controlled release of peroxisome proliferator-activated receptor β/δ agonist GW501516 improves diabetic wound healing through redox modulation of wound microenvironment. *Journal of Controlled Release*, **2015**, 197, 138-47	11.7	35
64	Fluorescence techniques used to measure interactions between hydroxyapatite nanoparticles and epidermal growth factor receptors. *Biotechnology Journal*, **2015**, 10, 171-9	5.6	2
63	Silk fibroin-keratin based 3D scaffolds as a dermal substitute for skin tissue engineering. *Integrative Biology (United Kingdom)*, **2015**, 7, 53-63	3.7	115
62	Stem Cells: Microenvironment, Micro/Nanotechnology, and Application. *Stem Cells International*, **2015**, 2015, 398510	5	1
61	Modulating Mesenchymal Stem Cell Behavior Using Human Hair Keratin-Coated Surfaces. *Stem Cells International*, **2015**, 2015, 752424	5	19
60	Culturing fibroblasts in 3D human hair keratin hydrogels. *ACS Applied Materials & Interfaces*, **2015**, 7, 5187-98	9.5	71

59	Calcium phosphate coated Keratin-PCL scaffolds for potential bone tissue regeneration. *Materials Science and Engineering C*, **2015**, 49, 746-753	8.3	41
58	Nanoparticle-assay marker interaction: effects on nanotoxicity assessment. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	2
57	Probing the relevance of 3D cancer models in nanomedicine research. *Advanced Drug Delivery Reviews*, **2014**, 79-80, 95-106	18.5	71
56	Phase poly(vinylidene fluoride) films encouraged more homogeneous cell distribution and more significant deposition of fibronectin towards the cell-material interface compared to phase poly(vinylidene fluoride) films. *Materials Science and Engineering C*, **2014**, 34, 345-53	8.3	19
55	Nanotoxicology in the Skin: How Deep is the Issue?. *Nano LIFE*, **2014**, 04, 1440004	0.9	9
54	Cytotoxicity of hydroxyapatite nanoparticles is shape and cell dependent. *Archives of Toxicology*, **2013**, 87, 1037-52	5.8	156
53	Integrated hollow mesoporous silica nanoparticles for target drug/siRNA co-delivery. *Chemistry - A European Journal*, **2013**, 19, 15593-603	4.8	138
52	Exposure to titanium dioxide nanoparticles induces autophagy in primary human keratinocytes. *Small*, **2013**, 9, 387-92	11	90
51	Graphene oxide wrapped gold nanoparticles for intracellular Raman imaging and drug delivery. *Journal of Materials Chemistry B*, **2013**, 1, 6495-6500	7.3	120
50	Human mesenchymal stem-cell behaviour on direct laser micropatterned electrospun scaffolds with hierarchical structures. *Macromolecular Bioscience*, **2013**, 13, 299-310	5.5	40
49	Size influences the cytotoxicity of poly (lactic-co-glycolic acid) (PLGA) and titanium dioxide (TiO(2)) nanoparticles. *Archives of Toxicology*, **2013**, 87, 1075-86	5.8	89
48	Size of TiO(2) nanoparticles influences their phototoxicity: an in vitro investigation. *Archives of Toxicology*, **2013**, 87, 99-109	5.8	67
47	Biophysical responses upon the interaction of nanomaterials with cellular interfaces. *Accounts of Chemical Research*, **2013**, 46, 782-91	24.3	111
46	Specific surface area of titanium dioxide (TiO2) particles influences cyto- and photo-toxicity. *Toxicology*, **2013**, 304, 132-40	4.4	42
45	Emerging in vitro models for safety screening of high-volume production nanomaterials under environmentally relevant exposure conditions. *Small*, **2013**, 9, 1504-20	11	21
44	Titanium dioxide nanomaterials cause endothelial cell leakiness by disrupting the homophilic interaction of VE-cadherin. *Nature Communications*, **2013**, 4, 1673	17.4	326
43	Electrospun human keratin matrices as templates for tissue regeneration. *Nanomedicine*, **2013**, 8, 531-41	5.6	41
42	Manipulating magnetic 3D spheroids in hanging drops for applications in tissue engineering and drug screening. *Advanced Healthcare Materials*, **2013**, 2, 1430-4	10.1	24

41	Cytotoxic and genotoxic characterization of titanium dioxide, gadolinium oxide, and poly(lactic-co-glycolic acid) nanoparticles in human fibroblasts. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 633-40	5.4	52
40	Evaluating the toxicity of hydroxyapatite nanoparticles in catfish cells and zebrafish embryos. *Small* , **2013**, 9, 1734-41	11	32
39	Increasing solvent polarity and addition of salts promote β-phase poly(vinylidene fluoride) formation. *Journal of Applied Polymer Science*, **2013**, 128, 2902-2910	2.9	34
38	Reciprocal Response of Human Oral Epithelial Cells to Internalized Silica Nanoparticles. *Particle and Particle Systems Characterization*, **2013**, 30, 784-793	3.1	29
37	Insights into the role of focal adhesion modulation in myogenic differentiation of human mesenchymal stem cells. *Stem Cells and Development*, **2013**, 22, 136-47	4.4	39
36	Understanding the nano-topography changes and cellular influences resulting from the surface adsorption of human hair keratins. *Advanced Healthcare Materials*, **2012**, 1, 513-9	10.1	29
35	Human keratin hydrogels support fibroblast attachment and proliferation in vitro. *Cell and Tissue Research*, **2012**, 347, 795-802	4.2	96
34	Direct laser machining-induced topographic pattern promotes up-regulation of myogenic markers in human mesenchymal stem cells. *Acta Biomaterialia*, **2012**, 8, 531-9	10.8	50
33	α- and β-poly(vinylidene fluoride) evoke different cellular behaviours. *Journal of Biomaterials Science, Polymer Edition*, **2011**, 22, 1651-67	3.5	32
32	Primary Culture of Specific Cell Types and the Establishment of Cell Lines **2011**, 205-230		2
31	The role of the tumor suppressor p53 pathway in the cellular DNA damage response to zinc oxide nanoparticles. *Biomaterials*, **2011**, 32, 8218-25	15.6	161
30	Cellular uptake of Poly-(D,L-lactide-co-glycolide) (PLGA) nanoparticles synthesized through solvent emulsion evaporation and nanoprecipitation method. *Biotechnology Journal*, **2011**, 6, 501-8	5.6	45
29	Cytotoxicity of zinc oxide (ZnO) nanoparticles is influenced by cell density and culture format. *Archives of Toxicology*, **2011**, 85, 695-704	5.8	60
28	Evaluation of the cytotoxic and inflammatory potential of differentially shaped zinc oxide nanoparticles. *Archives of Toxicology*, **2011**, 85, 1517-28	5.8	153
27	Bio-inspired micropatterned platform to steer stem cell differentiation. *Small*, **2011**, 7, 1416-21	11	51
26	In vitro assessment of cellular responses to rod-shaped hydroxyapatite nanoparticles of varying lengths and surface areas. *Nanotoxicology*, **2011**, 5, 182-94	5.3	44
25	MDM4 downregulates p53 transcriptional activity and response to stress during differentiation. *Cell Cycle*, **2011**, 10, 1100-8	4.7	15
24	Comparative cytotoxicity evaluation of lanthanide nanomaterials on mouse and human cell lines with metabolic and DNA-quantification assays. *Biointerphases*, **2010**, 5, FA88-97	1.8	27

23	Toxicity of zinc oxide (ZnO) nanoparticles on human bronchial epithelial cells (BEAS-2B) is accentuated by oxidative stress. *Food and Chemical Toxicology*, **2010**, 48, 1762-6	4.7	145
22	Micropatterned matrix directs differentiation of human mesenchymal stem cells towards myocardial lineage. *Experimental Cell Research*, **2010**, 316, 1159-68	4.2	133
21	A Manual for Primary Human Cell Culture. *Manuals in Biomedical Research*, **2010**,		5
20	The Human Intermediate Filament Database: comprehensive information on a gene family involved in many human diseases. *Human Mutation*, **2008**, 29, 351-60	4.7	270
19	In vivo evaluation of an ultra-thin polycaprolactone film as a wound dressing. *Journal of Biomaterials Science, Polymer Edition*, **2007**, 18, 925-38	3.5	54
18	Osteogenic differentiation of murine embryonic stem cells is mediated by fibroblast growth factor receptors. *Stem Cells and Development*, **2007**, 16, 305-18	4.4	38
17	Reduced contraction of skin equivalent engineered using cell sheets cultured in 3D matrices. *Biomaterials*, **2006**, 27, 4591-8	15.6	89
16	The challenge to measure cell proliferation in two and three dimensions. *Tissue Engineering*, **2005**, 11, 182-91		134
15	Assimilating cell sheets and hybrid scaffolds for dermal tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2005**, 75, 425-38	5.4	19
14	Characterization of a novel bioactive poly[(lactic acid)-co-(glycolic acid)] and collagen hybrid matrix for dermal regeneration. *Polymer International*, **2005**, 54, 1449-1457	3.3	6
13	In vitro characterization of natural and synthetic dermal matrices cultured with human dermal fibroblasts. *Biomaterials*, **2004**, 25, 2807-18	15.6	151
12	Preliminary study of a polycaprolactone membrane utilized as epidermal substrate. *Journal of Materials Science: Materials in Medicine*, **2003**, 14, 113-20	4.5	28
11	Elastic cartilage engineering using novel scaffold architectures in combination with a biomimetic cell carrier. *Biomaterials*, **2003**, 24, 4445-58	15.6	69
10	Induction of Ectopic Bone Formation by Using Human Periosteal Cells in Combination with a Novel Scaffold Technology. *Cell Transplantation*, **2002**, 11, 125-138	4	74
9	Poly(Ɛ-caprolactone) films as a potential substrate for tissue engineering an epidermal equivalent. *Materials Science and Engineering C*, **2002**, 20, 71-75	8.3	58
8	Evaluation of a tissue-engineered membrane-cell construct for guided bone regeneration. *International Journal of Oral and Maxillofacial Implants*, **2002**, 17, 161-74	2.8	32
7	Induction of ectopic bone formation by using human periosteal cells in combination with a novel scaffold technology. *Cell Transplantation*, **2002**, 11, 125-38	4	12
6	Mechanical properties and cell cultural response of polycaprolactone scaffolds designed and fabricated via fused deposition modeling. *Journal of Biomedical Materials Research Part B*, **2001**, 55, 203-16		1044

5	Evaluation of ultra-thin poly(epsilon-caprolactone) films for tissue-engineered skin. *Tissue Engineering*, **2001**, 7, 441-55		161
4	Mechanical properties and cell cultural response of polycaprolactone scaffolds designed and fabricated via fused deposition modeling **2001**, 55, 203		1
3	Mechanical properties and cell cultural response of polycaprolactone scaffolds designed and fabricated via fused deposition modeling **2001**, 55, 203		23
2	Facile and Efficient Enzymatic Methods for Harvesting or Removal of Cuticle Cells from Human Hair Shafts. *Journal of Natural Fibers*,1-14	1.8	
1	An Enzymatic Method for Harvesting Functional Melanosomes after Keratin Extraction: Maximizing Resource Recovery from Human Hair. *Journal of Polymers and the Environment*,1	4.5	0