

Chor Yong Tay

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/823747/publications.pdf>

Version: 2024-02-01

85
papers

4,018
citations

117453

34
h-index

118652

62
g-index

86
all docs

86
docs citations

86
times ranked

6186
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning-assisted optimization of TBBPA-bis-(2,3-dibromopropyl ether) extraction process from ABS polymer. <i>Chemosphere</i> , 2022, 287, 132128.	4.2	6
2	Polyoxometalates for bifunctional applications: Catalytic dye degradation and anticancer activity. <i>Chemosphere</i> , 2022, 286, 131869.	4.2	21
3	Direct reuse of electronic plastic scraps from computer monitor and keyboard to direct stem cell growth and differentiation. <i>Science of the Total Environment</i> , 2022, 807, 151085.	3.9	7
4	Printer center nanoparticles alter the DNA repair capacity of human bronchial airway epithelial cells. <i>NanoImpact</i> , 2022, 25, 100379.	2.4	6
5	Elucidating the Size-Dependency of In Vitro Digested Polystyrene Microplastics on Human Intestinal Cells Health and Function. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	1.1	7
6	Synthesis and characterization of a novel azido fluoroalkyl oligoether energetic plasticizer. <i>Journal of Materials Research</i> , 2022, 37, 1296-1308.	1.2	2
7	Applications, treatments, and reuse of plastics from electrical and electronic equipment. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 110, 84-99.	2.9	21
8	Activated recovery of PVC from contaminated waste extension cord-cable using a weak acid. <i>Chemosphere</i> , 2022, 303, 134878.	4.2	7
9	Clarifying the in-situ cytotoxic potential of electronic waste plastics. <i>Chemosphere</i> , 2021, 269, 128719.	4.2	17
10	A novel human arterial wall-on-a-chip to study endothelial inflammation and vascular smooth muscle cell migration in early atherosclerosis. <i>Lab on A Chip</i> , 2021, 21, 2359-2371.	3.1	27
11	Diatom-inspired 2D nitric oxide releasing anti-infective porous nanofrustules. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7229-7237.	2.9	2
12	High-Throughput Screening Platform for Nanoparticle-Mediated Alterations of DNA Repair Capacity. <i>ACS Nano</i> , 2021, 15, 4728-4746.	7.3	14
13	Direct and Label-Free Cell Status Monitoring of Spheroids and Microcarriers Using Microfluidic Impedance Cytometry. <i>Small</i> , 2021, 17, e2007500.	5.2	28
14	Value-added products from thermochemical treatments of contaminated e-waste plastics. <i>Chemosphere</i> , 2021, 269, 129409.	4.2	54
15	Microfluidics: Direct and Label-Free Cell Status Monitoring of Spheroids and Microcarriers Using Microfluidic Impedance Cytometry (<i>Small</i> 21/2021). <i>Small</i> , 2021, 17, 2170101.	5.2	0
16	Sustainable aquaculture side-streams derived hybrid biocomposite for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2021, 126, 112104.	3.8	7
17	Multitrack Compressed Sensing for Faster Hyperspectral Imaging. <i>Sensors</i> , 2021, 21, 5034.	2.1	0
18	Laser induced breakdown spectroscopy for plastic analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 140, 116280.	5.8	36

#	ARTICLE	IF	CITATIONS
19	Bioinspired short peptide hydrogel for versatile encapsulation and controlled release of growth factor therapeutics. <i>Acta Biomaterialia</i> , 2021, 136, 111-123.	4.1	20
20	A 3D physio-mimetic interpenetrating network-based platform to decode the pro and anti-tumorigenic properties of cancer-associated fibroblasts. <i>Acta Biomaterialia</i> , 2021, 132, 448-460.	4.1	19
21	Direct isolation of circulating extracellular vesicles from blood for vascular risk profiling in type 2 diabetes mellitus. <i>Lab on A Chip</i> , 2021, 21, 2511-2523.	3.1	33
22	Zyxin Is Involved in Fibroblast Rigidity Sensing and Durotaxis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 735298.	1.8	4
23	Microenvironmental Hypoxia Induces Dynamic Changes in Lung Cancer Synthesis and Secretion of Extracellular Vesicles. <i>Cancers</i> , 2020, 12, 2917.	1.7	13
24	Repurposing of Fruit Peel Waste as a Green Reductant for Recycling of Spent Lithium-Ion Batteries. <i>Environmental Science & Technology</i> , 2020, 54, 9681-9692.	4.6	81
25	Potentâ€œDesign: Amino Acids Mimicking Porous Nanotherapeutics with Intrinsic Anticancer Targeting Properties. <i>Small</i> , 2020, 16, e2003757.	5.2	20
26	Forging New Frontiers in Polymer Research and Innovations. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000521.	2.0	1
27	Interpenetrating Network of Alginateâ€œHuman Adipose Extracellular Matrix Hydrogel for Islet Cells Encapsulation. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000275.	2.0	23
28	Inflammation Increases Susceptibility of Human Small Airway Epithelial Cells to Pneumonic Nanotoxicity. <i>Small</i> , 2020, 16, 2000963.	5.2	15
29	Multitrack Adaptive Compressive Hyperspectral Imaging for Cell Monitoring Applications. , 2020, , .		1
30	Understanding the implications of engineered nanoparticle induced autophagy in human epidermal keratinocytes in vitro. <i>NanoImpact</i> , 2019, 15, 100177.	2.4	6
31	Materials Stiffnessâ€œDependent Redox Metabolic Reprogramming of Mesenchymal Stem Cells for Secretomeâ€œBased Therapeutic Angiogenesis. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900929.	3.9	49
32	Mechanoregulation of Cancer-Associated Fibroblast Phenotype in Three-Dimensional Interpenetrating Hydrogel Networks. <i>Langmuir</i> , 2019, 35, 7487-7495.	1.6	31
33	Pulsed SILAC-based proteomic analysis unveils hypoxia- and serum starvation-induced <i>de novo</i> protein synthesis with PHD finger protein 14 (PHF14) as a hypoxia sensitive epigenetic regulator in cell cycle progression. <i>Oncotarget</i> , 2019, 10, 2136-2150.	0.8	19
34	Index-tunable anti-reflection coatings: Maximizing solar modulation ability for vanadium dioxide-based smart thermochromic glazing. <i>Journal of Alloys and Compounds</i> , 2018, 731, 1197-1207.	2.8	48
35	Human keratinocytes adapt to ZnO nanoparticles induced toxicity via complex paracrine crosstalk and Nrf2-proteasomal signal transduction. <i>Nanotoxicology</i> , 2018, 12, 1215-1229.	1.6	25
36	Molecular Design and Medicinal Applications of Nano-Nitric Oxide Delivery Systems. <i>Current Medicinal Chemistry</i> , 2018, 25, 1420-1432.	1.2	11

#	ARTICLE	IF	CITATIONS
37	Gold Nanoparticles Induced Endothelial Leakiness Depends on Particle Size and Endothelial Cell Origin. ACS Nano, 2017, 11, 5020-5030.	7.3	218
38	Nanoparticle Density: A Critical Biophysical Regulator of Endothelial Permeability. ACS Nano, 2017, 11, 2764-2772.	7.3	133
39	Probing the Role of Integrins in Keratinocyte Migration Using Bioengineered Extracellular Matrix Mimics. ACS Applied Materials & Interfaces, 2017, 9, 36483-36492.	4.0	13
40	Decoupling the Direct and Indirect Biological Effects of ZnO Nanoparticles Using a Communicative Dual Cell-Type Tissue Construct. Small, 2016, 12, 647-657.	5.2	27
41	Cellular processing and destinies of artificial DNA nanostructures. Chemical Society Reviews, 2016, 45, 4199-4225.	18.7	146
42	Soft Material Approach to Induce Oxidative Stress in Mesenchymal Stem Cells for Functional Tissue Repair. ACS Applied Materials & Interfaces, 2016, 8, 26591-26599.	4.0	38
43	Reality Check for Nanomaterial-Mediated Therapy with 3D Biomimetic Culture Systems. Advanced Functional Materials, 2016, 26, 4046-4065.	7.8	47
44	Role of Cytoskeletal Tension in the Induction of Cardiomyogenic Differentiation in Micropatterned Human Mesenchymal Stem Cell. Advanced Healthcare Materials, 2015, 4, 1399-1407.	3.9	28
45	Biosensors: Electrochemical Quantification of <i>Escherichia coli</i> with DNA Nanostructure (Adv.) Tj ETQq1 1 0.784314 rgBT /Over	7.8	14
46	Nanotoxicity: Mechanistic Investigation of the Biological Effects of SiO ₂ , TiO ₂ , and ZnO Nanoparticles on Intestinal Cells (Small 28/2015). Small, 2015, 11, 3390-3390.	5.2	4
47	Nanotoxicity: Biomimicry 3D Gastrointestinal Spheroid Platform for the Assessment of Toxicity and Inflammatory Effects of Zinc Oxide Nanoparticles (Small 6/2015). Small, 2015, 11, 760-760.	5.2	2
48	Understanding and exploiting nanoparticles' intimacy with the blood vessel and blood. Chemical Society Reviews, 2015, 44, 8174-8199.	18.7	268
49	Bio-inspired micropatterned hydrogel to direct and deconstruct hierarchical processing of geometry-force signals by human mesenchymal stem cells during smooth muscle cell differentiation. NPG Asia Materials, 2015, 7, e199-e199.	3.8	51
50	Nature-Inspired DNA Nanosensor for Real-Time <i>In Situ</i> Detection of mRNA in Living Cells. ACS Nano, 2015, 9, 5609-5617.	7.3	159
51	Molecular Architecture Governs Cytotoxicity and Gene Transfection Efficacy of Polyethylenimine Based Nanoplexes in Mammalian Cell Lines. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 301-311.	1.9	9
52	Electrochemical Quantification of <i>Escherichia coli</i> with DNA Nanostructure. Advanced Functional Materials, 2015, 25, 3840-3846.	7.8	72
53	Anti-migratory and increased cytotoxic effects of novel dual drug-loaded complex hybrid micelles in triple negative breast cancer cells. Nano Research, 2015, 8, 2533-2547.	5.8	31
54	Highlights from the latest articles in technical and technological advancements in nanotherapeutics. Nanomedicine, 2015, 10, 1047-1049.	1.7	1

#	ARTICLE	IF	CITATIONS
55	Mechanistic Investigation of the Biological Effects of SiO ₂ , TiO ₂ , and ZnO Nanoparticles on Intestinal Cells. <i>Small</i> , 2015, 11, 3458-3468.	5.2	125
56	Biomimicry 3D Gastrointestinal Spheroid Platform for the Assessment of Toxicity and Inflammatory Effects of Zinc Oxide Nanoparticles. <i>Small</i> , 2015, 11, 702-712.	5.2	98
57	Toxicity profiling of water contextual zinc oxide, silver, and titanium dioxide nanoparticles in human oral and gastrointestinal cell systems. <i>Environmental Toxicology</i> , 2015, 30, 1459-1469.	2.1	54
58	Modulating Human Mesenchymal Stem Cell Plasticity Using Micropatterning Technique. <i>PLoS ONE</i> , 2014, 9, e113043.	1.1	6
59	The gap between endothelial cells: key to the quick escape of nanomaterials?. <i>Nanomedicine</i> , 2014, 9, 1591-1594.	1.7	20
60	Inorganic nanoparticles as tubulin binding agents for cancer therapy. <i>Nanomedicine</i> , 2014, 9, 2075-2077.	1.7	5
61	Exploiting cancer's antioxidative weakness through p53 with nanotoxicology. <i>Nanomedicine</i> , 2014, 9, 369-371.	1.7	15
62	Induction of Myogenic Differentiation of Human Mesenchymal Stem Cells Cultured on Notch Agonist (Jagged-1) Modified Biodegradable Scaffold Surface. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1652-1661.	4.0	24
63	Investigating the Spatial Distribution of Integrin β^1 in Patterned Human Mesenchymal Stem Cells Using Super-Resolution Imaging. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15686-15696.	4.0	10
64	Back to Basics: Exploiting the Innate Physicochemical Characteristics of Nanomaterials for Biomedical Applications. <i>Advanced Functional Materials</i> , 2014, 24, 5936-5955.	7.8	192
65	Nanomedicine: Back to Basics: Exploiting the Innate Physicochemical Characteristics of Nanomaterials for Biomedical Applications (<i>Adv. Funct. Mater.</i> 38/2014). <i>Advanced Functional Materials</i> , 2014, 24, 5930-5930.	7.8	2
66	Nano-hydroxyapatite and Nano-titanium Dioxide Exhibit Different Subcellular Distribution and Apoptotic Profile in Human Oral Epithelium. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6248-6256.	4.0	87
67	Ultrabright organic dots with aggregation-induced emission characteristics for cell tracking. <i>Biomaterials</i> , 2014, 35, 8669-8677.	5.7	96
68	Nanoparticles Strengthen Intracellular Tension and Retard Cellular Migration. <i>Nano Letters</i> , 2014, 14, 83-88.	4.5	191
69	Novel Theranostic DNA Nanoscaffolds for the Simultaneous Detection and Killing of <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21822-21831.	4.0	107
70	Presentation matters: Identity of gold nanocluster capping agent governs intracellular uptake and cell metabolism. <i>Nano Research</i> , 2014, 7, 805-815.	5.8	88
71	Effect of zinc oxide nanomaterials-induced oxidative stress on the p53 pathway. <i>Biomaterials</i> , 2013, 34, 10133-10142.	5.7	141
72	Mechanoregulation of stem cell fate via micro-/nano-scale manipulation for regenerative medicine. <i>Nanomedicine</i> , 2013, 8, 623-638.	1.7	44

#	ARTICLE	IF	CITATIONS
73	A Generic Micropatterning Platform to Direct Human Mesenchymal Stem Cells from Different Origins Towards Myogenic Differentiation. <i>Macromolecular Bioscience</i> , 2013, 13, 799-807.	2.1	17
74	A Bioinspired Platform to Modulate Myogenic Differentiation of Human Mesenchymal Stem Cells Through Focal Adhesion Regulation. <i>Advanced Healthcare Materials</i> , 2013, 2, 442-449.	3.9	40
75	Reciprocal Response of Human Oral Epithelial Cells to Internalized Silica Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 784-793.	1.2	34
76	Engineered Polymeric Biomaterials for Tissue Engineering. <i>Current Tissue Engineering</i> , 2012, 1, 41-53.	0.2	17
77	Cyclic tensile loading regulates human mesenchymal stem cell differentiation into neuron-like phenotype. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012, 6, s68-s79.	1.3	28
78	A novel and simple microcontact printing technique for tacky, soft substrates and/or complex surfaces in soft tissue engineering. <i>Acta Biomaterialia</i> , 2012, 8, 1267-1272.	4.1	42
79	Bioinspired Micropatterned Platform to Steer Stem Cell Differentiation. <i>Small</i> , 2011, 7, 1416-1421.	5.2	52
80	Micro/Nanoengineered Cellular Responses for Soft Tissue Engineering and Biomedical Applications. <i>Small</i> , 2011, 7, 1361-1378.	5.2	127
81	Micropatterned matrix directs differentiation of human mesenchymal stem cells towards myocardial lineage. <i>Experimental Cell Research</i> , 2010, 316, 1159-1168.	1.2	148
82	Cellular behavior of human mesenchymal stem cells cultured on single-walled carbon nanotube film. <i>Carbon</i> , 2010, 48, 1095-1104.	5.4	94
83	Mechanical behavior of human mesenchymal stem cells during adipogenic and osteogenic differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2010, 393, 150-155.	1.0	98
84	Thickness sensing of hMSCs on collagen gel directs stem cell fate. <i>Biochemical and Biophysical Research Communications</i> , 2010, 401, 287-292.	1.0	74
85	Immobilization of <i>Mucor javanicus</i> lipase by entrapping in alginate-silica hybrid gel beads with simultaneous cross-linking with glutaraldehyde. <i>Biocatalysis and Biotransformation</i> , 2007, 25, 459-463.	1.1	11