Xin-Yuan Sun

List of Publications by Year
in descending order

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38	613	516681 16	677123 22
papers	citations	h-index	g-index

38	38	38	511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Size-dependent cellular uptake mechanism and cytotoxicity toward calcium oxalate on Vero cells. Scientific Reports, 2017, 7, 41949.	3.3	41
2	Effect of Content of Sulfate Groups in Seaweed Polysaccharides on Antioxidant Activity and Repair Effect of Subcellular Organelles in Injured HK-2 Cells. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-13.	4.0	36
3	Preparation, characterization, and in vitro cytotoxicity of COM and COD crystals with various sizes. Materials Science and Engineering C, 2015, 57, 147-156.	7.3	33
4	Effect of Crystal Shape and Aggregation of Calcium Oxalate Monohydrate on Cellular Toxicity in Renal Epithelial Cells. ACS Omega, 2017, 2, 6039-6052.	3.5	27
5	Repair Effects of Astragalus Polysaccharides with Different Molecular Weights on Oxidatively Damaged HK-2 Cells. Scientific Reports, 2019, 9, 9871.	3.3	26
6	Repair activity and crystal adhesion inhibition of polysaccharides with different molecular weights from red algae Porphyra yezoensis against oxalate-induced oxidative damage in renal epithelial cells. Food and Function, 2019, 10, 3851-3867.	4.6	24
7	Shape-dependent cellular toxicity on renal epithelial cells and stone risk of calcium oxalate dihydrate crystals. Scientific Reports, 2017, 7, 7250.	3.3	23
8	Antioxidant Activities and Repair Effects on Oxidatively Damaged HK-2 Cells of Tea Polysaccharides with Different Molecular Weights. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-17.	4.0	23
9	Synthesis, characterization, and cytotoxicity assay of calcium oxalate dihydrate crystals in various shapes. CrystEngComm, 2016, 18, 5463-5473.	2.6	22
10	Effects of Porphyra yezoensis Polysaccharide with Different Molecular Weights on the Adhesion and Endocytosis of Nanocalcium Oxalate Monohydrate in Repairing Damaged HK-2 Cells. ACS Biomaterials Science and Engineering, 2019, 5, 3974-3986.	5.2	21
11	Size-dependent toxicity and interactions of calcium oxalate dihydrate crystals on Vero renal epithelial cells. Journal of Materials Chemistry B, 2015, 3, 1864-1878.	5.8	20
12	Structural Characterization and Repair Mechanism of Gracilaria lemaneiformis Sulfated Polysaccharides of Different Molecular Weights on Damaged Renal Epithelial Cells. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-15.	4.0	20
13	Preparation and characterization of selenized Astragalus polysaccharide and its inhibitory effect on kidney stones. Materials Science and Engineering C, 2020, 110, 110732.	7.3	20
14	Renal Epithelial Cell Injury Induced by Calcium Oxalate Monohydrate Depends on Their Structural Features: Size, Surface, and Crystalline Structure. Journal of Biomedical Nanotechnology, 2016, 12, 2001-2014.	1.1	18
15	Adhesion and internalization differences of COM nanocrystals on Vero cells before and after cell damage. Materials Science and Engineering C, 2016, 59, 286-295.	7.3	18
16	Preparation, properties, formation mechanisms, and cytotoxicity of calcium oxalate monohydrate with various morphologies. CrystEngComm, 2018, 20, 75-87.	2.6	18
17	Modulation of Calcium Oxalate Crystal Growth and Protection from Oxidatively Damaged Renal Epithelial Cells of Corn Silk Polysaccharides with Different Molecular Weights. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-19.	4.0	18
18	Structural Characterization, Antioxidant Activity, and Biomedical Application of Astragalus Polysaccharide Degradation Products. International Journal of Polymer Science, 2018, 2018, 1-13.	2.7	17

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19	Antioxidant activity of sulfated Porphyra yezoensis polysaccharides and their regulating effect on calcium oxalate crystal growth. Materials Science and Engineering C, 2021, 128, 112338.	7.3	17
20	Reinjury risk of nano-calcium oxalate monohydrate and calcium oxalate dihydrate crystals on injured renal epithelial cells: aggravation of crystal adhesion and aggregation. International Journal of Nanomedicine, 2016, 11, 2839.	6.7	16
21	Effects of plant polysaccharides with different carboxyl group contents on calcium oxalate crystal growth. CrystEngComm, 2017, 19, 4838-4847.	2.6	16
22	Mechanism of cytotoxicity of micron/nano calcium oxalate monohydrate and dihydrate crystals on renal epithelial cells. RSC Advances, 2015, 5, 45393-45406.	3.6	15
23	Regulation on Calcium Oxalate Crystallization and Protection on HK-2 Cells of Tea Polysaccharides with Different Molecular Weights. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-14.	4.0	15
24	Degraded Porphyra yezoensis polysaccharide protects HK-2 cells and reduces nano-COM crystal toxicity, adhesion and endocytosis. Journal of Materials Chemistry B, 2020, 8, 7233-7252.	5.8	13
25	Porphyra yezoensis polysaccharide and potassium citrate synergistically inhibit calcium oxalate crystallization induced by renal epithelial cells and cytotoxicity of the formed crystals. Materials Science and Engineering C, 2021, 119, 111448.	7.3	11
26	Carboxymethylation of Corn Silk Polysaccharide and Its Inhibition on Adhesion of Nanocalcium Oxalate Crystals to Damaged Renal Epithelial Cells. ACS Biomaterials Science and Engineering, 2021, 7, 3409-3422.	5.2	11
27	Size-Dependent Cytotoxicity of Hydroxyapatite Crystals on Renal Epithelial Cells . International Journal of Nanomedicine, 2020, Volume 15, 5043-5060.	6.7	9
28	Effects of Selenized Astragalus Polysaccharide on the Adhesion and Endocytosis of Nanocalcium Oxalate Dihydrate after the Repair of Damaged HK-2 Cells. ACS Biomaterials Science and Engineering, 2021, 7, 739-751.	5.2	9
29	Time-dependent subcellular structure injuries induced by nano-/micron-sized calcium oxalate monohydrate and dihydrate crystals. Materials Science and Engineering C, 2017, 79, 445-456.	7.3	8
30	Preprotection of Tea Polysaccharides with Different Molecular Weights Can Reduce the Adhesion between Renal Epithelial Cells and Nano-Calcium Oxalate Crystals. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-13.	4.0	8
31	Inhibition of Calcium Oxalate Formation and Antioxidant Activity of Carboxymethylated Poria cocos Polysaccharides. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-19.	4.0	8
32	Protective Effects of Degraded Soybean Polysaccharides on Renal Epithelial Cells Exposed to Oxidative Damage. Journal of Agricultural and Food Chemistry, 2016, 64, 7911-7920.	5.2	5
33	Comparison of the adhesion and endocytosis of calcium oxalate dihydrate to HK-2 cells before and after repair by Astragalus polysaccharide. Science and Technology of Advanced Materials, 2019, 20, 1164-1177.	6.1	5
34	Repair of Tea Polysaccharide Promotes the Endocytosis of Nanocalcium Oxalate Monohydrate by Damaged HK-2 Cells. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-12.	4.0	5
35	Sulfated Undaria pinnatifida polysaccharide inhibits the formation of kidney stones by inhibiting HK-2 cell damage and reducing the adhesion of nanoâ€‘calcium oxalate crystals. Materials Science and Engineering C, 2022, 134, 112564.	7.3	5
36	Regulatory Effects of Damaged Renal Epithelial Cells After Repair by Porphyra yezoensis Polysaccharides with Different Sulfation Degree on the Calcium Oxalate Crystalâ€“Cell Interaction. International Journal of Nanomedicine, 2021, Volume 16, 8087-8102.	6.7	5

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37	Regulation of Laminaria Polysaccharides with Different Degrees of Sulfation during the Growth of Calcium Oxalate Crystals and their Protective Effects on Renal Epithelial Cells. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-19.	4.0	4
38	Protective Effect of Degraded Porphyra yezoensis Polysaccharides on the Oxidative Damage of Renal Epithelial Cells and on the Adhesion and Endocytosis of Nanocalcium Oxalate Crystals. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-15.	4.0	3