

# Xin-Yuan Sun

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38  
papers

365  
citations

13  
h-index

16  
g-index

38  
ext. papers

481  
ext. citations

6  
avg, IF

4.21  
L-index

#	Paper	IF	Citations
38	Sulfated <i>Undaria pinnatifida</i> polysaccharide inhibits the formation of kidney stones by inhibiting HK-2 cell damage and reducing the adhesion of nano-calcium oxalate crystals.. <i>Materials Science and Engineering C</i> , <b>2021</b> , 112564	8.3	
37	Inhibition of Calcium Oxalate Formation and Antioxidant Activity of Carboxymethylated Polysaccharides. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2021</b> , 2021, 6653593	6.7	3
36	Carboxymethylation of Corn Silk Polysaccharide and Its Inhibition on Adhesion of Nanocalcium Oxalate Crystals to Damaged Renal Epithelial Cells. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 3409-3422	5.5	1
35	<i>Porphyra yezoensis</i> polysaccharide and potassium citrate synergistically inhibit calcium oxalate crystallization induced by renal epithelial cells and cytotoxicity of the formed crystals. <i>Materials Science and Engineering C</i> , <b>2021</b> , 119, 111448	8.3	3
34	Protective Effect of Degraded Polysaccharides on the Oxidative Damage of Renal Epithelial Cells and on the Adhesion and Endocytosis of Nanocalcium Oxalate Crystals. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2021</b> , 2021, 6463281	6.7	0
33	Regulation of Polysaccharides with Different Degrees of Sulfation during the Growth of Calcium Oxalate Crystals and their Protective Effects on Renal Epithelial Cells. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2021</b> , 2021, 5555796	6.7	0
32	Antioxidant activity of sulfated <i>Porphyra yezoensis</i> polysaccharides and their regulating effect on calcium oxalate crystal growth. <i>Materials Science and Engineering C</i> , <b>2021</b> , 128, 112338	8.3	5
31	Effects of Selenized Polysaccharide on the Adhesion and Endocytosis of Nanocalcium Oxalate Dihydrate after the Repair of Damaged HK-2 Cells. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 739-751	5.5	3
30	Regulatory Effects of Damaged Renal Epithelial Cells After Repair by Polysaccharides with Different Sulfation Degree on the Calcium Oxalate Crystal-Cell Interaction.. <i>International Journal of Nanomedicine</i> , <b>2021</b> , 16, 8087-8102	7.3	0
29	Repair of Tea Polysaccharide Promotes the Endocytosis of Nanocalcium Oxalate Monohydrate by Damaged HK-2 Cells. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2020</b> , 2020, 2198976	6.7	3
28	Regulation on Calcium Oxalate Crystallization and Protection on HK-2 Cells of Tea Polysaccharides with Different Molecular Weights. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2020</b> , 2020, 5057123	6.7	7
27	Degraded <i>Porphyra yezoensis</i> polysaccharide protects HK-2 cells and reduces nano-COM crystal toxicity, adhesion and endocytosis. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 7233-7252	7.3	5
26	Preparation and characterization of selenized <i>Astragalus</i> polysaccharide and its inhibitory effect on kidney stones. <i>Materials Science and Engineering C</i> , <b>2020</b> , 110, 110732	8.3	8
25	Preprotection of Tea Polysaccharides with Different Molecular Weights Can Reduce the Adhesion between Renal Epithelial Cells and Nano-Calcium Oxalate Crystals. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2020</b> , 2020, 1817635	6.7	5
24	Modulation of Calcium Oxalate Crystal Growth and Protection from Oxidatively Damaged Renal Epithelial Cells of Corn Silk Polysaccharides with Different Molecular Weights. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2020</b> , 2020, 6982948	6.7	7
23	Size-Dependent Cytotoxicity of Hydroxyapatite Crystals on Renal Epithelial Cells. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 5043-5060	7.3	3
22	Repair activity and crystal adhesion inhibition of polysaccharides with different molecular weights from red algae <i>Porphyra yezoensis</i> against oxalate-induced oxidative damage in renal epithelial cells. <i>Food and Function</i> , <b>2019</b> , 10, 3851-3867	6.1	16

21	Effects of Polysaccharide with Different Molecular Weights on the Adhesion and Endocytosis of Nanocalcium Oxalate Monohydrate in Repairing Damaged HK-2 Cells. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 3974-3986	5.5	13
20	Repair Effects of Astragalus Polysaccharides with Different Molecular Weights on Oxidatively Damaged HK-2 Cells. <i>Scientific Reports</i> , <b>2019</b> , 9, 9871	4.9	12
19	Comparison of the adhesion and endocytosis of calcium oxalate dihydrate to HK-2 cells before and after repair by polysaccharide. <i>Science and Technology of Advanced Materials</i> , <b>2019</b> , 20, 1164-1177	7.1	2
18	Preparation, properties, formation mechanisms, and cytotoxicity of calcium oxalate monohydrate with various morphologies. <i>CrystEngComm</i> , <b>2018</b> , 20, 75-87	3.3	15
17	Structural Characterization and Repair Mechanism of Sulfated Polysaccharides of Different Molecular Weights on Damaged Renal Epithelial Cells. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2018</b> , 2018, 7410389	6.7	15
16	Antioxidant Activities and Repair Effects on Oxidatively Damaged HK-2 Cells of Tea Polysaccharides with Different Molecular Weights. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2018</b> , 2018, 5297539	6.7	14
15	Structural Characterization, Antioxidant Activity, and Biomedical Application of Astragalus Polysaccharide Degradation Products. <i>International Journal of Polymer Science</i> , <b>2018</b> , 2018, 1-13	2.4	7
14	Size-dependent cellular uptake mechanism and cytotoxicity toward calcium oxalate on Vero cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 41949	4.9	32
13	Time-dependent subcellular structure injuries induced by nano-/micron-sized calcium oxalate monohydrate and dihydrate crystals. <i>Materials Science and Engineering C</i> , <b>2017</b> , 79, 445-456	8.3	7
12	Effect of Content of Sulfate Groups in Seaweed Polysaccharides on Antioxidant Activity and Repair Effect of Subcellular Organelles in Injured HK-2 Cells. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2017</b> , 2017, 2542950	6.7	26
11	Effect of Crystal Shape and Aggregation of Calcium Oxalate Monohydrate on Cellular Toxicity in Renal Epithelial Cells. <i>ACS Omega</i> , <b>2017</b> , 2, 6039-6052	3.9	16
10	Shape-dependent cellular toxicity on renal epithelial cells and stone risk of calcium oxalate dihydrate crystals. <i>Scientific Reports</i> , <b>2017</b> , 7, 7250	4.9	17
9	Effects of plant polysaccharides with different carboxyl group contents on calcium oxalate crystal growth. <i>CrystEngComm</i> , <b>2017</b> , 19, 4838-4847	3.3	13
8	Synthesis, characterization, and cytotoxicity assay of calcium oxalate dihydrate crystals in various shapes. <i>CrystEngComm</i> , <b>2016</b> , 18, 5463-5473	3.3	16
7	Adhesion and internalization differences of COM nanocrystals on Vero cells before and after cell damage. <i>Materials Science and Engineering C</i> , <b>2016</b> , 59, 286-295	8.3	15
6	Reinjury risk of nano-calcium oxalate monohydrate and calcium oxalate dihydrate crystals on injured renal epithelial cells: aggravation of crystal adhesion and aggregation. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 2839-54	7.3	10
5	Renal Epithelial Cell Injury Induced by Calcium Oxalate Monohydrate Depends on their Structural Features: Size, Surface, and Crystalline Structure. <i>Journal of Biomedical Nanotechnology</i> , <b>2016</b> , 12, 2001-14	4	14
4	Protective Effects of Degraded Soybean Polysaccharides on Renal Epithelial Cells Exposed to Oxidative Damage. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 7911-7920	5.7	5

3	Preparation, characterization, and in vitro cytotoxicity of COM and COD crystals with various sizes. <i>Materials Science and Engineering C</i> , <b>2015</b> , 57, 147-56	8.3	24
2	Mechanism of cytotoxicity of micron/nano calcium oxalate monohydrate and dihydrate crystals on renal epithelial cells. <i>RSC Advances</i> , <b>2015</b> , 5, 45393-45406	3.7	11
1	Size-dependent toxicity and interactions of calcium oxalate dihydrate crystals on Vero renal epithelial cells. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 1864-1878	7.3	12