Peter Valtchev

List of Publications by Year
in descending order

43 papers	959 citations	361296 20 h-index	454834 30 g-index
43 all docs	43 docs citations	43 times ranked	1456 citing authors

#	Article	IF	Citations
1	The effect of thermal pasteurization, freeze-drying, and gamma irradiation on donor human milk. Food Chemistry, 2022, 373, 131402.	4.2	6
2	Virtual screening and in vitro validation of natural compound inhibitors against SARS-CoV-2 spike protein. Bioorganic Chemistry, 2022, 119, 105574.	2.0	10
3	Lipoprotein-induced cell growth and hemocyanin biosynthesis in rhogocytes. Cell and Tissue Research, 2022, 388, 359-371.	1.5	1
4	Recovery of high-value compounds from food by-products. , 2022, , 61-88.		1
5	Biopolymerâ€Based Multilayer Microparticles for Probiotic Delivery to Colon. Advanced Healthcare Materials, 2022, 11, e2102487.	3.9	9
6	Identifying HSV-1 Inhibitors from Natural Compounds via Virtual Screening Targeting Surface Glycoprotein D. Pharmaceuticals, 2022, 15, 361.	1.7	3
7	The risk of infectious pathogens in breast-feeding, donated human milk and breast milk substitutes. Public Health Nutrition, 2021, 24, 1725-1740.	1.1	16
8	Pharmacokinetic profile of injectable tramadol in the koala (Phascolarctos cinereus) and prediction of its analgesic efficacy. PLoS ONE, 2021, 16, e0247546.	1.1	4
9	Synthesis and Characterization of Bone Binding Antibiotic-1 (BBA-1), a Novel Antimicrobial for Orthopedic Applications. Molecules, 2021, 26, 1541.	1.7	3
10	Potential application of non-thermal atmospheric plasma in reducing the activity of Pseudomonas-secreted proteases in milk. International Dairy Journal, 2021, 120, 105078.	1.5	4
11	The Effects of Thermal Pasteurisation, Freeze-Drying, and Gamma-Irradiation on the Antibacterial Properties of Donor Human Milk. Foods, 2021, 10, 2077.	1.9	6
12	Dynamic flow and shear stress as key parameters for intestinal cells morphology and polarization in an organ-on-a-chip model. Biomedical Microdevices, 2021, 23, 55.	1.4	24
13	Optimization of post-insertion method to conjugate Doxil with anti-CD133 monoclonal antibodies: Investigating the specific binding and cytotoxicity to colorectal cancer cells in vitro. Saudi Pharmaceutical Journal, 2020, 28, 1392-1401.	1.2	12
14	Citrus Peel Flavonoids as Potential Cancer Prevention Agents. Current Developments in Nutrition, 2020, 4, nzaa025.	0.1	58
15	A potential biotechnological process for the sustainable production of vitamin K₁. Critical Reviews in Biotechnology, 2019, 39, 1-19.	5.1	42
16	A Bioactive Coating Enhances Bone Allografts in Rat Models of Bone Formation and Critical Defect Repair. Journal of Orthopaedic Research, 2019, 37, 2278-2286.	1.2	10
17	Models of the Gut for Analyzing the Impact of Food and Drugs. Advanced Healthcare Materials, 2019, 8, e1900968.	3.9	32
18	Extraction of phytochemicals from tomato leaf waste using subcritical carbon dioxide. Innovative Food Science and Emerging Technologies, 2019, 57, 102204.	2.7	21

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19	Development of a menaquinone-7 enriched functional food. Food and Bioproducts Processing, 2019, 117, 258-265.	1.8	5
20	Anti-influenza activity of elderberry (Sambucus nigra). Journal of Functional Foods, 2019, 54, 353-360.	1.6	51
21	Effect of citrus peel extracts on the cellular quiescence of prostate cancer cells. Food and Function, 2019, 10, 3727-3737.	2.1	16
22	A benign process for the recovery of solanesol from tomato leaf waste. Heliyon, 2019, 5, e01523.	1.4	12
23	Optimized Synthesis of Poly(deoxyribose) Isobutyrate, a Viscous Biomaterial for Bone Morphogenetic Protein-2 Delivery. ACS Applied Materials & Interfaces, 2019, 11, 2870-2879.	4.0	3
24	Simulating Inflammation in a Wound Microenvironment Using a Dermal Woundâ€onâ€aâ€Chip Model. Advanced Healthcare Materials, 2019, 8, e1801307.	3.9	46
25	A green process for the purification of biodegradable poly(Î²-hydroxybutyrate). Journal of Supercritical Fluids, 2018, 135, 84-90.	1.6	21
26	A hybrid process for increasing the shelf life of elderberry juice. Journal of Supercritical Fluids, 2018, 140, 406-414.	1.6	11
27	Thermal denaturation and protein stability analysis of Haliotis rubra hemocyanin. Journal of Thermal Analysis and Calorimetry, 2016, 123, 2499-2505.	2.0	8
28	Abalone Hemocyanin Blocks the Entry of Herpes Simplex Virus 1 into Cells: a Potential New Antiviral Strategy. Antimicrobial Agents and Chemotherapy, 2016, 60, 1003-1012.	1.4	31
29	Distribution and Characterization of Rhogocyte Cell Types in the Mantle Tissue of Haliotis laevigata. Marine Biotechnology, 2015, 17, 168-179.	1.1	7
30	An efficient liposome based method for antioxidants encapsulation. Colloids and Surfaces B: Biointerfaces, 2015, 136, 1067-1072.	2.5	48
31	An approach to improve the efficiency of polymerization and enhance biological activity of poly(lactideâ€•co â€ethylene oxide fumarate) hydrogels. Journal of Polymer Science Part A, 2014, 52, 1291-1299.	2.5	2
32	Enhancing the mechanical properties and physical stability of biomimetic polymer hydrogels for micro-patterning and tissue engineering applications. European Polymer Journal, 2014, 59, 161-170.	2.6	21
33	Elastin based cell-laden injectable hydrogels with tunable gelation, mechanical and biodegradation properties. Biomaterials, 2014, 35, 5425-5435.	5.7	77
34	Formulation of abalone hemocyanin with high antiviral activity and stability. European Journal of Pharmaceutical Sciences, 2014, 53, 77-85.	1.9	27
35	Fabrication of interpenetrating polymer network to enhanceÂthe biological activity of synthetic hydrogels. Polymer, 2013, 54, 5534-5542.	1.8	35
36	Synthesis of a biodegradable polymer in gas expanded solution: effect of the process on cytocompatibility. Green Chemistry, 2013, 15, 1280.	4.6	7

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37	Pharmacokinetics of meloxicam in koalas (<scp>P</scp>hascolarctos cinereus) after intravenous, subcutaneous and oral administration. Journal of Veterinary Pharmacology and Therapeutics, 2013, 36, 486-493.	0.6	31
38	Synthesis and purification of poly(l-lactic acid) using a one step benign process. Green Chemistry, 2012, 14, 1357.	4.6	21
39	Surface modification of poly(propylene carbonate) by aminolysis and layer-by-layer assembly for enhanced cytocompatibility. Colloids and Surfaces B: Biointerfaces, 2012, 93, 75-84.	2.5	49
40	Efficient media for high menaquinone-7 production: response surface methodology approach. New Biotechnology, 2011, 28, 665-672.	2.4	87
41	Enhanced Production of Menaquinone 7 via Solid Substrate Fermentation from Bacillus subtilis. International Journal of Food Engineering, 2011, 7, .	0.7	35
42	Sterilization of ginseng using a high pressure CO₂ at moderate temperatures. Biotechnology and Bioengineering, 2009, 102, 569-576.	1.7	21
43	Effect of Dense Gas CO₂ on the Coacervation of Elastin. Biomacromolecules, 2008, 9, 1100-1105.	2.6	25