Peter Valtchev

List of Publications by Year in descending order

43 papers	959 citations	361413 20 h-index	454955 30 g-index
43 all docs	43 docs citations	43 times ranked	1456 citing authors

#	Article	IF	Citations
1	Efficient media for high menaquinone-7 production: response surface methodology approach. New Biotechnology, 2011, 28, 665-672.	4.4	87
2	Elastin based cell-laden injectable hydrogels with tunable gelation, mechanical and biodegradation properties. Biomaterials, 2014, 35, 5425-5435.	11.4	77
3	Citrus Peel Flavonoids as Potential Cancer Prevention Agents. Current Developments in Nutrition, 2020, 4, nzaa025.	0.3	58
4	Anti-influenza activity of elderberry (Sambucus nigra). Journal of Functional Foods, 2019, 54, 353-360.	3.4	51
5	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.	5.0	49
6	An efficient liposome based method for antioxidants encapsulation. Colloids and Surfaces B: Biointerfaces, 2015, 136, 1067-1072.	5.0	48
7	Simulating Inflammation in a Wound Microenvironment Using a Dermal Woundâ€onâ€aâ€Chip Model. Advanced Healthcare Materials, 2019, 8, e1801307.	7.6	46
8	A potential biotechnological process for the sustainable production of vitamin K₁. Critical Reviews in Biotechnology, 2019, 39, 1-19.	9.0	42
9	Enhanced Production of Menaquinone 7 via Solid Substrate Fermentation from Bacillus subtilis. International Journal of Food Engineering, 2011, 7, .	1.5	35
10	Fabrication of interpenetrating polymer network to enhanceÂthe biological activity of synthetic hydrogels. Polymer, 2013, 54, 5534-5542.	3.8	35
11	Models of the Gut for Analyzing the Impact of Food and Drugs. Advanced Healthcare Materials, 2019, 8, e1900968.	7.6	32
12	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.	1.3	31
13	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.	3.2	31
14	Formulation of abalone hemocyanin with high antiviral activity and stability. European Journal of Pharmaceutical Sciences, 2014, 53, 77-85.	4.0	27
15	Effect of Dense Gas CO₂ on the Coacervation of Elastin. Biomacromolecules, 2008, 9, 1100-1105.	5.4	25
16	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.	2.8	24
17	Sterilization of ginseng using a high pressure CO₂ at moderate temperatures. Biotechnology and Bioengineering, 2009, 102, 569-576.	3.3	21
18	Synthesis and purification of poly(l-lactic acid) using a one step benign process. Green Chemistry, 2012, 14, 1357.	9.0	21

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19	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.	5.4	21
20	A green process for the purification of biodegradable poly(Î²-hydroxybutyrate). Journal of Supercritical Fluids, 2018, 135, 84-90.	3.2	21
21	Extraction of phytochemicals from tomato leaf waste using subcritical carbon dioxide. Innovative Food Science and Emerging Technologies, 2019, 57, 102204.	5.6	21
22	Effect of citrus peel extracts on the cellular quiescence of prostate cancer cells. Food and Function, 2019, 10, 3727-3737.	4.6	16
23	The risk of infectious pathogens in breast-feeding, donated human milk and breast milk substitutes. Public Health Nutrition, 2021, 24, 1725-1740.	2.2	16
24	A benign process for the recovery of solanesol from tomato leaf waste. Heliyon, 2019, 5, e01523.	3.2	12
25	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.	2.7	12
26	A hybrid process for increasing the shelf life of elderberry juice. Journal of Supercritical Fluids, 2018, 140, 406-414.	3.2	11
27	A Bioactive Coating Enhances Bone Allografts in Rat Models of Bone Formation and Critical Defect Repair. Journal of Orthopaedic Research, 2019, 37, 2278-2286.	2.3	10
28	Virtual screening and in vitro validation of natural compound inhibitors against SARS-CoV-2 spike protein. Bioorganic Chemistry, 2022, 119, 105574.	4.1	10
29	Biopolymerâ€Based Multilayer Microparticles for Probiotic Delivery to Colon. Advanced Healthcare Materials, 2022, 11, e2102487.	7.6	9
30	Thermal denaturation and protein stability analysis of Haliotis rubra hemocyanin. Journal of Thermal Analysis and Calorimetry, 2016, 123, 2499-2505.	3.6	8
31	Synthesis of a biodegradable polymer in gas expanded solution: effect of the process on cytocompatibility. Green Chemistry, 2013, 15, 1280.	9.0	7
32	Distribution and Characterization of Rhogocyte Cell Types in the Mantle Tissue of Haliotis laevigata. Marine Biotechnology, 2015, 17, 168-179.	2.4	7
33	The Effects of Thermal Pasteurisation, Freeze-Drying, and Gamma-Irradiation on the Antibacterial Properties of Donor Human Milk. Foods, 2021, 10, 2077.	4.3	6
34	The effect of thermal pasteurization, freeze-drying, and gamma irradiation on donor human milk. Food Chemistry, 2022, 373, 131402.	8.2	6
35	Development of a menaquinone-7 enriched functional food. Food and Bioproducts Processing, 2019, 117, 258-265.	3.6	5
36	Pharmacokinetic profile of injectable tramadol in the koala (Phascolarctos cinereus) and prediction of its analgesic efficacy. PLoS ONE, 2021, 16, e0247546.	2.5	4

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37	Potential application of non-thermal atmospheric plasma in reducing the activity of Pseudomonas-secreted proteases in milk. International Dairy Journal, 2021, 120, 105078.	3.0	4
38	Optimized Synthesis of Poly(deoxyribose) Isobutyrate, a Viscous Biomaterial for Bone Morphogenetic Protein-2 Delivery. ACS Applied Materials & Interfaces, 2019, 11, 2870-2879.	8.0	3
39	Synthesis and Characterization of Bone Binding Antibiotic-1 (BBA-1), a Novel Antimicrobial for Orthopedic Applications. Molecules, 2021, 26, 1541.	3.8	3
40	Identifying HSV-1 Inhibitors from Natural Compounds via Virtual Screening Targeting Surface Glycoprotein D. Pharmaceuticals, 2022, 15, 361.	3.8	3
41	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.	2.3	2
42	Lipoprotein-induced cell growth and hemocyanin biosynthesis in rhogocytes. Cell and Tissue Research, 2022, 388, 359-371.	2.9	1
43	Recovery of high-value compounds from food by-products. , 2022, , 61-88.		1