

Peter Valtchev

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

959
citations

361045

20
h-index

454577

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. <i>New Biotechnology</i> , 2011, 28, 665-672.	2.4	87
2	Elastin based cell-laden injectable hydrogels with tunable gelation, mechanical and biodegradation properties. <i>Biomaterials</i> , 2014, 35, 5425-5435.	5.7	77
3	Citrus Peel Flavonoids as Potential Cancer Prevention Agents. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa025.	0.1	58
4	Anti-influenza activity of elderberry (<i>Sambucus nigra</i>). <i>Journal of Functional Foods</i> , 2019, 54, 353-360.	1.6	51
5	Surface modification of poly(propylene carbonate) by aminolysis and layer-by-layer assembly for enhanced cytocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 93, 75-84.	2.5	49
6	An efficient liposome based method for antioxidants encapsulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 1067-1072.	2.5	48
7	Simulating Inflammation in a Wound Microenvironment Using a Dermal Woundâ€œonâ€œChip Model. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801307.	3.9	46
8	A potential biotechnological process for the sustainable production of vitamin K ₁ . <i>Critical Reviews in Biotechnology</i> , 2019, 39, 1-19.	5.1	42
9	Enhanced Production of Menaquinone 7 via Solid Substrate Fermentation from <i>Bacillus subtilis</i> . <i>International Journal of Food Engineering</i> , 2011, 7, .	0.7	35
10	Fabrication of interpenetrating polymer network to enhance the biological activity of synthetic hydrogels. <i>Polymer</i> , 2013, 54, 5534-5542.	1.8	35
11	Models of the Gut for Analyzing the Impact of Food and Drugs. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900968.	3.9	32
12	Pharmacokinetics of meloxicam in koalas (<i>Permacalartos cinereus</i>) after intravenous, subcutaneous and oral administration. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2013, 36, 486-493.	0.6	31
13	Abalone Hemocyanin Blocks the Entry of Herpes Simplex Virus 1 into Cells: a Potential New Antiviral Strategy. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 1003-1012.	1.4	31
14	Formulation of abalone hemocyanin with high antiviral activity and stability. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 53, 77-85.	1.9	27
15	Effect of Dense Gas CO ₂ on the Coacervation of Elastin. <i>Biomacromolecules</i> , 2008, 9, 1100-1105.	2.6	25
16	Dynamic flow and shear stress as key parameters for intestinal cells morphology and polarization in an organ-on-a-chip model. <i>Biomedical Microdevices</i> , 2021, 23, 55.	1.4	24
17	Sterilization of ginseng using a high pressure CO ₂ at moderate temperatures. <i>Biotechnology and Bioengineering</i> , 2009, 102, 569-576.	1.7	21
18	Synthesis and purification of poly(l-lactic acid) using a one step benign process. <i>Green Chemistry</i> , 2012, 14, 1357.	4.6	21

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19	Enhancing the mechanical properties and physical stability of biomimetic polymer hydrogels for micro-patterning and tissue engineering applications. <i>European Polymer Journal</i> , 2014, 59, 161-170.	2.6	21
20	A green process for the purification of biodegradable poly(β -hydroxybutyrate). <i>Journal of Supercritical Fluids</i> , 2018, 135, 84-90.	1.6	21
21	Extraction of phytochemicals from tomato leaf waste using subcritical carbon dioxide. <i>Innovative Food Science and Emerging Technologies</i> , 2019, 57, 102204.	2.7	21
22	Effect of citrus peel extracts on the cellular quiescence of prostate cancer cells. <i>Food and Function</i> , 2019, 10, 3727-3737.	2.1	16
23	The risk of infectious pathogens in breast-feeding, donated human milk and breast milk substitutes. <i>Public Health Nutrition</i> , 2021, 24, 1725-1740.	1.1	16
24	A benign process for the recovery of solanesol from tomato leaf waste. <i>Heliyon</i> , 2019, 5, e01523.	1.4	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. <i>Saudi Pharmaceutical Journal</i> , 2020, 28, 1392-1401.	1.2	12
26	A hybrid process for increasing the shelf life of elderberry juice. <i>Journal of Supercritical Fluids</i> , 2018, 140, 406-414.	1.6	11
27	A Bioactive Coating Enhances Bone Allografts in Rat Models of Bone Formation and Critical Defect Repair. <i>Journal of Orthopaedic Research</i> , 2019, 37, 2278-2286.	1.2	10
28	Virtual screening and in vitro validation of natural compound inhibitors against SARS-CoV-2 spike protein. <i>Bioorganic Chemistry</i> , 2022, 119, 105574.	2.0	10
29	Biopolymer-Based Multilayer Microparticles for Probiotic Delivery to Colon. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102487.	3.9	9
30	Thermal denaturation and protein stability analysis of <i>Haliotis rubra</i> hemocyanin. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 2499-2505.	2.0	8
31	Synthesis of a biodegradable polymer in gas expanded solution: effect of the process on cytocompatibility. <i>Green Chemistry</i> , 2013, 15, 1280.	4.6	7
32	Distribution and Characterization of Rhogocyte Cell Types in the Mantle Tissue of <i>Haliotis laevigata</i> . <i>Marine Biotechnology</i> , 2015, 17, 168-179.	1.1	7
33	The Effects of Thermal Pasteurisation, Freeze-Drying, and Gamma-Irradiation on the Antibacterial Properties of Donor Human Milk. <i>Foods</i> , 2021, 10, 2077.	1.9	6
34	The effect of thermal pasteurization, freeze-drying, and gamma irradiation on donor human milk. <i>Food Chemistry</i> , 2022, 373, 131402.	4.2	6
35	Development of a menaquinone-7 enriched functional food. <i>Food and Bioprocess Processing</i> , 2019, 117, 258-265.	1.8	5
36	Pharmacokinetic profile of injectable tramadol in the koala (<i>Phascolarctos cinereus</i>) and prediction of its analgesic efficacy. <i>PLoS ONE</i> , 2021, 16, e0247546.	1.1	4

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37	Potential application of non-thermal atmospheric plasma in reducing the activity of Pseudomonas-secreted proteases in milk. <i>International Dairy Journal</i> , 2021, 120, 105078.	1.5	4
38	Optimized Synthesis of Poly(deoxyribose) Isobutyrate, a Viscous Biomaterial for Bone Morphogenetic Protein-2 Delivery. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2870-2879.	4.0	3
39	Synthesis and Characterization of Bone Binding Antibiotic-1 (BBA-1), a Novel Antimicrobial for Orthopedic Applications. <i>Molecules</i> , 2021, 26, 1541.	1.7	3
40	Identifying HSV-1 Inhibitors from Natural Compounds via Virtual Screening Targeting Surface Glycoprotein D. <i>Pharmaceuticals</i> , 2022, 15, 361.	1.7	3
41	An approach to improve the efficiency of polymerization and enhance biological activity of poly(lactide-co-ethylene oxide fumarate) hydrogels. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1291-1299.	2.5	2
42	Lipoprotein-induced cell growth and hemocyanin biosynthesis in rhogocytes. <i>Cell and Tissue Research</i> , 2022, 388, 359-371.	1.5	1
43	Recovery of high-value compounds from food by-products. , 2022, , 61-88.		1