

Vladimir K Popov

List of Publications by Year in descending order

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37
papers

1,200
citations

394286

19
h-index

414303

32
g-index

37
all docs

37
docs citations

37
times ranked

1521
citing authors

#	ARTICLE	IF	CITATIONS
1	Supercritical fluid mixing: preparation of thermally sensitive polymer composites containing bioactive materials. <i>Chemical Communications</i> , 2001, , 109-110.	2.2	191
2	Three-Dimensional Bioactive and Biodegradable Scaffolds Fabricated by Surface-Selective Laser Sintering. <i>Advanced Materials</i> , 2005, 17, 327-330.	11.1	130
3	Osteogenic Differentiation of Human Mesenchymal Stem Cells in 3-D Zr-Si Organic-Inorganic Scaffolds Produced by Two-Photon Polymerization Technique. <i>PLoS ONE</i> , 2015, 10, e0118164.	1.1	79
4	Supercritical carbon dioxide: putting the fizz into biomaterials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 249-261.	1.6	70
5	Biocompatibility and osteogenic potential of human fetal femur-derived cells on surface selective laser sintered scaffolds. <i>Acta Biomaterialia</i> , 2009, 5, 2063-2071.	4.1	68
6	Infrared spectroscopic study of the photochemical substitution and oxidative addition reactions of (η^5 -C ₅ R ₅)M(CO) ₄ compounds of group 5 metals: characterization of the products of reaction with nitrogen, hydrogen and HSiEt ₃ -xCl _x and the kinetic investigation of (η^5 -C ₅ R ₅)M(CO) ₃ intermediates. <i>Journal of the American Chemical Society</i> , 1993, 115, 2286-2299.	6.6	65
7	Probing Vapor/Liquid Equilibria of Near-Critical Binary Gas Mixtures by Acoustic Measurements. <i>The Journal of Physical Chemistry</i> , 1996, 100, 9522-9526.	2.9	55
8	3D printing of PLGA scaffolds for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 104-109.	2.1	52
9	The fibre optic reflectometer: A new and simple probe for refractive index and phase separation measurements in gases, liquids and supercritical fluids. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1258.	1.3	48
10	3D fabrication of all-polymer conductive microstructures by two photon polymerization. <i>Optics Express</i> , 2013, 21, 31029.	1.7	45
11	3D Printing of Octacalcium Phosphate Bone Substitutes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 81.	2.0	40
12	3D printing of mineral-polymer bone substitutes based on sodium alginate and calcium phosphate. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1794-1799.	1.5	37
13	In vitro study of hydroxyapatite-based photocurable polymer composites prepared by laser stereolithography and supercritical fluid extraction. <i>Acta Biomaterialia</i> , 2008, 4, 1603-1610.	4.1	35
14	Photoacoustic Calorimetry at High Pressure: A New Approach to Determination of Bond Strengths. Estimation of the M-L Bond Dissociation Energy of M(CO) ₅ L (M = Cr, Mo; L = H ₂ , N ₂) in n-Heptane Solution. <i>The Journal of Physical Chemistry</i> , 1995, 99, 12016-12020.	2.9	30
15	Can High-Pressure Raman Spectroscopy Be Simplified? A Microscale Optical-Fiber Capillary Cell for the Study of Supercritical Fluids. <i>Applied Spectroscopy</i> , 1994, 48, 214-218.	1.2	26
16	The morphological stability in supercritical fluid chemical deposition of films near the critical point. <i>Journal of Crystal Growth</i> , 1995, 155, 276-285.	0.7	23
17	Energetics of the Reactions of (η^6 -C ₆ H ₆)Cr(CO) ₃ with n-Heptane, N ₂ , and H ₂ Studied by High-Pressure Photoacoustic Calorimetry. <i>The Journal of Physical Chemistry</i> , 1996, 100, 19425-19429.	2.9	23
18	<i>In Vitro</i> and <i>In Vivo</i> Analysis of Adhesive, Anti-Inflammatory, and Proangiogenic Properties of Novel 3D Printed Hyaluronic Acid Glycidyl Methacrylate Hydrogel Scaffolds for Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5744-5757.	2.6	22

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19	3D Printed Gene-activated Octacalcium Phosphate Implants for Large Bone Defects Engineering. International Journal of Bioprinting, 2020, 6, 275.	1.7	22
20	Determining phase boundaries and vapour/liquid critical points in supercritical fluids: a multi-technique approach. Journal of Supercritical Fluids, 2004, 30, 259-272.	1.6	20
21	A route to diffusion embedding of CdSe/CdS quantum dots in fluoropolymer microparticles. Green Chemistry, 2011, 13, 2696.	4.6	20
22	Flavin mononucleotide photoinitiated cross-linking of hydrogels: Polymer concentration threshold of strengthening. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 341, 108-114.	2.0	18
23	Acoustic and photoacoustic measurements in supercritical fluids; a new approach to determining the critical point of mixtures. Journal of Supercritical Fluids, 1994, 7, 69-73.	1.6	17
24	Dielectrometry in Supercritical Fluids. A New Approach to the Measurement of Solubility and Study of Dipole Moment Behavior of Polar Compounds. Journal of Physical Chemistry B, 1997, 101, 2929-2932.	1.2	14
25	Calcium phosphate blossom for bone tissue engineering. Materials Today, 2014, 17, 96-97.	8.3	11
26	High-power excimer lasers and new sources of coherent radiation in the vacuum ultraviolet. Uspekhi Fizicheskikh Nauk, 1985, 28, 1031-1041.	0.3	7
27	Wide-Ranging Multitool Study of Structure and Porosity of PLGA Scaffolds for Tissue Engineering. Polymers, 2021, 13, 1021.	2.0	7
28	PLGA Carriers for Controlled Release of Levofloxacin in Anti-Tuberculosis Therapy. Pharmaceutics, 2022, 14, 1275.	2.0	7
29	Photoacoustic Calorimetric and Time-Resolved Infrared Studies on Unstable Dinitrogen and Dihydrogen Complexes in Hydrocarbon Solution; Estimation of VL Bond Dissociation Enthalpies in [($\dot{1}$ -5-C5H5)V(CO)3L] Compounds (L = N ₂ and $\dot{1}$ -2-H ₂). Mendeleev Communications, 1991, 1, 145-148.	0.6	5
30	Dependences of the parameters of an optoacoustic signal on the radius of the excited region. Soviet Journal of Quantum Electronics, 1984, 14, 285-286.	0.1	4
31	<title>Optical properties of CO$\langle \inf \langle \roman \rangle 2 \langle /roman \rangle \langle /inf \rangle \langle /math \rangle$ in the vicinity of critical point</title>. , 2002, 4705, 129.		3
32	CARS spectroscopy of carbon dioxide in the critical point vicinity. Quantum Electronics, 2004, 34, 86-90.	0.3	3
33	Computer biomodeling and laser stereolithography. , 2004, , .		2
34	Laboratory 3D printing system. International Journal of Engineering and Technology(UAE), 2018, 7, 68.	0.2	1
35	Novel approach to fabrication of highly doped nanoporous glasses. , 2003, , .		0
36	<title>Laser rapid prototyping for tissue engineering and regeneration</title>. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
37	Thermographic analysis of postoperative changes in the nasal breathing efficiency in infants and young children with unilateral cleft lip. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 2225-2234.	1.7	0