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## Thermal Degradation of Polyvinylpyrrolidone on the Surface of Pyrogenic Silica

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Russian Journal of Applied Chemistry, 2001, 74, 839-844.

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#	Paper	IF	Citations
43	Composite powders with titania grafted onto modified fumed silica. <i>Powder Technology</i> , <b>2006</b> , 164, 153-167	3.67	15
42	Easy deposition of amorphous carbon films on glass substrates. <i>Carbon</i> , <b>2008</b> , 46, 1801-1804	10.4	5
41	Biomimetic synthesis of spherical nano-hydroxyapatite with polyvinylpyrrolidone as template. <i>Materials Science and Technology</i> , <b>2008</b> , 24, 612-617	1.5	12
40	Synthesis, characterization, bioactivity and biocompatibility of nanostructured materials based on the wollastonite-poly(ethylmethacrylate-co-vinylpyrrolidone) system. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 88, 53-64	5.4	27
39	Influence of Preparation Parameters on the Performance of Colloid-derived Oxidic Palladium Catalysts for Selective Hydrogenation of C≡ Triple Bonds. <i>Topics in Catalysis</i> , <b>2009</b> , 52, 412-423	2.3	9
38	Thermal study on electrospun polyvinylpyrrolidone/ammonium metatungstate nanofibers: optimising the annealing conditions for obtaining WO <sub>3</sub> nanofibers. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 73-81	4.1	79
37	High temperature transformation of electrospun BaZrO <sub>3</sub> nanotubes into nanoparticle chains. <i>CrystEngComm</i> , <b>2011</b> , 13, 7224	3.3	10
36	A TG/FTIR study on the thermal degradation of poly(vinyl pyrrolidone). <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 104, 737-742	4.1	149
35	Design of sterculia gum based double potential antidiarrheal drug delivery system. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2011</b> , 82, 325-32	6	29
34	A Dry Process for Polymer Nano-Microfibers Prepared by Electrospinning under Pressurized CO <sub>2</sub> . <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 08HF07	1.4	4
33	Polyvinylpyrrolidone assisted sol-gel route LiCo <sub>1/3</sub> Mn <sub>1/3</sub> Ni <sub>1/3</sub> PO <sub>4</sub> composite cathode for aqueous rechargeable battery. <i>Electrochimica Acta</i> , <b>2012</b> , 60, 170-176	6.7	48
32	Electrocatalytic activity of well-defined and homogeneous cubic-shaped Pd nanoparticles. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 15524	13	35
31	Genotoxicity of polyvinylpyrrolidone-coated silver nanoparticles in BEAS 2B cells. <i>Toxicology</i> , <b>2013</b> , 313, 38-48	4.4	85
30	Electrospinning of polymer nanofibers loaded with noncovalently functionalized graphene. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 128, 4040-4046	2.9	44
29	Morphological evolution of carbon nanofibers encapsulating SnCo alloys and its effect on growth of the solid electrolyte interphase layer. <i>ACS Nano</i> , <b>2013</b> , 7, 7330-41	16.7	51
28	Controlled degradation of polylactic acid grafting N-vinyl pyrrolidone induced by gamma ray radiation. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 130, 704-709	2.9	15
27	Mechanistic insights into formation of SnO <sub>2</sub> nanotubes: asynchronous decomposition of poly(vinylpyrrolidone) in electrospun fibers during calcining process. <i>Langmuir</i> , <b>2014</b> , 30, 11183-9	4	45

26	Thickness-concentration-viscosity relationships in spin-coated metalorganic ceria films containing polyvinylpyrrolidone. <i>Journal of Sol-Gel Science and Technology</i> , <b>2014</b> , 72, 21-29	2.3	6
25	Effect of carbon coating on the electrochemical properties of Bi <sub>2</sub> WO <sub>6</sub> nanoparticles by PVP-assisted sonochemical method. <i>Journal of Applied Electrochemistry</i> , <b>2015</b> , 45, 473-485	2.6	8
24	Oil Recovery from Water under Environmentally Relevant Conditions Using Magnetic Nanoparticles. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 11729-36	10.3	103
23	Generation of open-ended, worm-like and graphene-like structures from layered spherical carbon materials. <i>RSC Advances</i> , <b>2016</b> , 6, 20399-20408	3.7	6
22	Alternative Synthesis Route of Biocompatible Polyvinylpyrrolidone Nanoparticles and Their Effect on Pathogenic Microorganisms. <i>Molecular Pharmaceutics</i> , <b>2017</b> , 14, 221-233	5.6	9
21	Multistage thermal decomposition in films of cadmium chloride-doped PVA/PVP polymeric blend. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 134, 865-878	4.1	10
20	Facile Flow-Through Synthesis Method for Production of Large Quantities of Polyvinylpyrrolidone-Coated Magnetic Iron Oxide Nanoparticles for Oil Remediation. <i>Environmental Engineering Science</i> , <b>2018</b> , 35, 67-75	2	4
19	Calcium phosphate submicrometric fibers produced by solution blow spinning. <i>Materials Research</i> , <b>2019</b> , 22,	1.5	3
18	Water Resistant Self-Extinguishing Low Frequency Soundproofing Polyvinylpyrrolidone Based Electrospun Blankets. <i>Polymers</i> , <b>2019</b> , 11,	4.5	15
17	Removal of Residual Poly(vinylpyrrolidone) from Gold Nanoparticles Immobilized on SiO <sub>2</sub> by Ultraviolet-Ozone Treatment. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 5720-5729	5.6	3
16	Centrifugally spun silica (SiO <sub>2</sub> ) nanofibers for high-temperature air filtration. <i>Aerosol Science and Technology</i> , <b>2019</b> , 53, 921-932	3.4	20
15	Photocatalytic activity of SnO-TiO composite nanoparticles modified with PVP. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 542, 296-307	9.3	47
14	Investigation of Poly(ethersulfone)/Polyvinylpyrrolidone ultrafiltration membrane degradation by contact with sodium hypochlorite through FTIR mapping and two-dimensional correlation spectroscopy. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 161, 131-138	4.7	10
13	Fabrication of Alumina fibers by sol-gel and electrospinning of aluminum nitrate precursor solutions. <i>Results in Physics</i> , <b>2019</b> , 12, 193-204	3.7	26
12	Highly active PdNi bimetallic nanocubes electrocatalysts for the ethylene glycol electro-oxidation in alkaline medium. <i>Applied Surface Science</i> , <b>2020</b> , 530, 147210	6.7	7
11	Surface plasma treatment of the electrospun TiO <sub>2</sub> /PVP composite fibers in different atmospheres. <i>Applied Surface Science</i> , <b>2020</b> , 523, 146381	6.7	8
10	Mechanically robust hydrophobic interpenetrating polymer network-based nanocomposite of hyperbranched polyurethane and polystyrene as an effective anticorrosive coating. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 5980-5994	3.6	9
9	Green synthesis of porous N-Carbon/Silica nanofibers by solution blow spinning and evaluation of their efficiency in dye adsorption. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 3038-3046	5.5	8

8	Thermal stability of poly(N-vinylpyrrolidone) immobilized on the surface of silica in the presence of noble metals in an atmosphere of hydrogen and oxygen. <i>Materials Today Communications</i> , <b>2021</b> , 26, 101706	2.5	1
7	Nuclear Magnetic Resonance Spectroscopic and Infrared Spectroscopic Characterization of Poly( N -Vinyl Pyrrolidone) and Poly( N -Vinyl Caprolactam) Polymers. 1469-1534		
6	Forcespun polyvinylpyrrolidone/copper and polyethylene oxide/copper composite fibers and their use as antibacterial agents. <i>Journal of Applied Polymer Science</i> , 51773	2.9	2
5	A Dry Process for Polymer Nano-Microfibers Prepared by Electrospinning under Pressurized CO <sub>2</sub> . <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 08HF07	1.4	
4	Surfactant-mediated synthesis of monodisperse Poly(benzyl methacrylate)-based copolymer microspheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 633, 127870	5.1	1
3	Solution Blow Spun Silica Nanofibers: Influence of Polymeric Additives on the Physical Properties and Dye Adsorption Capacity. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	0
2	Electrospinning of PVP-based ternary composites containing SiO <sub>2</sub> nanoparticles and hybrid TiO <sub>2</sub> microparticles with adsorbed superoxide radicals. <i>Composites Part B: Engineering</i> , <b>2022</b> , 238, 109874	10	1
1	Influence of Polyvinylpyrrolidone on Thermoelectric Properties of Melt-Mixed Polymer/Carbon Nanotube Composites. <b>2023</b> , 14, 181		1