

Pudun Zhang

List of Publications by Year in descending order

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20
papers

307
citations

933447

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h-index

888059

17
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20
all docs

20
docs citations

20
times ranked

423
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of montmorillonite (MMT) on the crystallization behavior of poly(L-lactic acid) (PLLA) by variable-temperature FTIR coupled with difference spectrometry, PCMW2D and 2DCOS analyses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 277, 121289.	3.9	6
2	Evolution of the structural polymorphs of poly(l-lactic acid) during the in vitro mineralization of its hydroxyapatite nanocomposites by attenuated total reflection fourier transform infrared mapping coupled with principal component analysis. <i>Polymer</i> , 2021, 236, 124318.	3.8	1
3	Isothermal crystalline polymorphs of poly(l-lactic acid) by FTIR coupled with two-dimensional correlation spectroscopy and perturbation-correlation moving-window two-dimensional analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 229, 117953.	3.9	10
4	Three-Dimensional Visualization for Early-Stage Evolution of Polymer Aging. <i>ACS Central Science</i> , 2020, 6, 771-778.	11.3	19
5	A simple and rapid Fourier transform infrared method for the determination of the degree of acetyl substitution of cellulose nanocrystals. <i>Journal of Materials Science</i> , 2019, 54, 8047-8056.	3.7	26
6	In vitro mineralization kinetics of poly(l-lactic acid)/hydroxyapatite nanocomposite material by attenuated total reflection Fourier transform infrared mapping coupled with principal component analysis. <i>Journal of Materials Science</i> , 2018, 53, 8009-8019.	3.7	10
7	Identification of trace additives in polymer materials by attenuated total reflection Fourier transform infrared mapping coupled with multivariate curve resolution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 180, 154-160.	3.9	9
8	Soy Protein Isolate and Glycerol Hydrogen Bonding Using Two-Dimensional Correlation (2D-COS) Attenuated Total Reflection Fourier Transform Infrared (ATR FT-IR) Spectroscopy. <i>Applied Spectroscopy</i> , 2017, 71, 2437-2445.	2.2	17
9	Determination of the content of <i>Eucommia ulmoides</i> gum by Variable Temperature Fourier Transform Infrared Spectrum. <i>Polymer Testing</i> , 2017, 63, 582-586.	4.8	20
10	Variable-temperature Fourier-transform infrared studies of poly(l-lactic acid) in different states of order: A 2DCOS and PCMW2D analysis. <i>Journal of Molecular Structure</i> , 2016, 1124, 256-261.	3.6	10
11	Attenuated Total Reflection Fourier Transform Infrared Spectroscopy (ATR FT-IR) Mapping Coupled with Multivariate Curve Resolution (MCR) for Studying the Miscibility of Chlorobutyl Rubber/Polyamide-12 Blends. <i>Applied Spectroscopy</i> , 2015, 69, 1319-1326.	2.2	4
12	De novo growth of poly(amidoamine) dendrimers on the surface of multi-walled carbon nanotubes. <i>Journal of Materials Science</i> , 2014, 49, 3469-3477.	3.7	22
13	Attenuated total reflectance/Fourier transform infrared (ATR/FTIR) mapping coupled with principal component analysis for the study of in vitro degradation of porous polylactide/hydroxyapatite composite material. <i>Analytical Methods</i> , 2014, 6, 5590-5595.	2.7	22
14	Characterization of In vitro Mineralization of Porous Poly (L-Lactic Acid)/Bioactive Glass Composites by Attenuated Total Reflectance-Fourier Transform Infrared Mapping. <i>Chinese Journal of Analytical Chemistry</i> , 2014, 42, 221-226.	1.7	5
15	Fourier Transform Infrared (FT-IR) Imaging Coupled with Principal Component Analysis (PCA) for the Study of Photooxidation of Polypropylene. <i>Applied Spectroscopy</i> , 2012, 66, 566-573.	2.2	20
16	Depth profiling of SBS/PET layered materials using step-scan phase modulation Fourier transform infrared photoacoustic spectroscopy and two-dimensional correlation analysis. <i>Science China Chemistry</i> , 2010, 53, 1190-1194.	8.2	5
17	Influence of maleic anhydride grafted polypropylene on the miscibility of polypropylene/polyamide-6 blends using ATR-FTIR mapping. <i>Vibrational Spectroscopy</i> , 2009, 49, 17-21.	2.2	44
18	An FTIR standard addition method for quantification of bound styrene in its copolymers. <i>Polymer Testing</i> , 2008, 27, 153-157.	4.8	32

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19	Miscibility Behavior of Ethylene/Vinyl Acetate and C5 Petroleum Resin by FTIR Imaging. <i>Analytical Sciences</i> , 2007, 23, 877-880.	1.6	15
20	Characterization of solution-phase DNA hybridization by fluorescence correlation spectroscopy: Rapid genotyping of C677T from methylenetetrahydrofolate reductase gene. <i>Talanta</i> , 2007, 71, 1192-1197.	5.5	10