Lu Xu

List of Publications by Year
in descending order

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59 papers	1,620 citations	257450 24 h-index	315739 38 g-index
60 all docs	60 docs citations	60 times ranked	2265 citing authors

#	Article	IF	Citations
1	Rapid transport of deformation-tuned nanoparticles across biological hydrogels and cellular barriers. Nature Communications, 2018, 9, 2607.	12.8	186
2	Tetrahydrocurcumin Ameliorates Diabetic Cardiomyopathy by Attenuating High Glucose-Induced Oxidative Stress and Fibrosis via Activating the SIRT1 Pathway. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-15.	4.0	80
3	Neuroprotective Effect of Î²-Caryophyllene on Cerebral Ischemia-Reperfusion Injury via Regulation of Necroptotic Neuronal Death and Inflammation: In Vivo and in Vitro. Frontiers in Neuroscience, 2017, 11, 583.	2.8	67
4	Cancer Cell Membrane-Camouflaged Nanorods with Endoplasmic Reticulum Targeting for Improved Antitumor Therapy. ACS Applied Materials & Interfaces, 2019, 11, 46614-46625.	8.0	64
5	Î²-Caryophyllene Attenuates Focal Cerebral Ischemia-Reperfusion Injury by Nrf2/HO-1 Pathway in Rats. Neurochemical Research, 2016, 41, 1291-1304.	3.3	63
6	Development and comparison of intramuscularly long-acting paliperidone palmitate nanosuspensions with different particle size. International Journal of Pharmaceutics, 2014, 472, 380-385.	5.2	61
7	Apolipoprotein E-Mimetic COG1410 Reduces Acute Vasogenic Edema following Traumatic Brain Injury. Journal of Neurotrauma, 2016, 33, 175-182.	3.4	59
8	Evaluation of biomimetically synthesized mesoporous silica nanoparticles as drug carriers: Structure, wettability, degradation, biocompatibility and brain distribution. Materials Science and Engineering C, 2019, 94, 453-464.	7.3	59
9	Î²-Caryophyllene protects against ischemic stroke by promoting polarization of microglia toward M2 phenotype via the TLR4 pathway. Life Sciences, 2019, 237, 116915.	4.3	54
10	Mesoporous silica nanorods for improved oral drug absorption. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 1132-1140.	2.8	52
11	Contribution of carboxyl modified chiral mesoporous silica nanoparticles in delivering doxorubicin hydrochloride in vitro: pH-response controlled release, enhanced drug cellular uptake and cytotoxicity. Colloids and Surfaces B: Biointerfaces, 2016, 141, 374-381.	5.0	51
12	Î²â€Caryophyllene protects inÂvitro neurovascular unit against oxygenâ€glucose deprivation and reâ€oxygenationâ€induced injury. Journal of Neurochemistry, 2016, 139, 757-768.	3.9	43
13	Î²-Caryophyllene Pretreatment Alleviates Focal Cerebral Ischemia-Reperfusion Injury by Activating PI3K/Akt Signaling Pathway. Neurochemical Research, 2017, 42, 1459-1469.	3.3	42
14	Î²-Caryophyllene/Hydroxypropyl-Î²-Cyclodextrin Inclusion Complex Improves Cognitive Deficits in Rats with Vascular Dementia through the Cannabinoid Receptor Type 2 -Mediated Pathway. Frontiers in Pharmacology, 2017, 8, 2.	3.5	39
15	Biomimetic synthesized chiral mesoporous silica: Structures and controlled release functions as drug carrier. Materials Science and Engineering C, 2015, 55, 367-372.	7.3	38
16	Facile synthesis of functionalized ionic surfactant templated mesoporous silica for incorporation of poorly water-soluble drug. International Journal of Pharmaceutics, 2015, 492, 191-198.	5.2	38
17	Effect of Shape on Mesoporous Silica Nanoparticles for Oral Delivery of Indomethacin. Pharmaceutics, 2019, 11, 4.	4.5	36
18	Comparison of bare and amino modified mesoporous silica@poly(ethyleneimine)s xerogel as indomethacin carrier: Superiority of amino modification. Materials Science and Engineering C, 2016, 59, 710-716.	7.3	35

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19	Biomimetic synthesized nanoporous silica@poly(ethyleneimine)s xerogel as drug carrier: Characteristics and controlled release effect. International Journal of Pharmaceutics, 2014, 467, 9-18.	5.2	34
20	Control-release microcapsule of famotidine loaded biomimetic synthesized mesoporous silica nanoparticles: Controlled release effect and enhanced stomach adhesion in vitro. Materials Science and Engineering C, 2016, 58, 273-277.	7.3	33
21	Dual-modified nanoparticles overcome sequential absorption barriers for oral insulin delivery. Journal of Controlled Release, 2022, 342, 1-13.	9.9	29
22	Preparation and Evaluation of Ibuprofen Solid Dispersion Systems with Kollidon Particles Using a Pulse Combustion Dryer System. Chemical and Pharmaceutical Bulletin, 2007, 55, 1545-1550.	1.3	27
23	Neuroprotective effects of curcumin against rats with focal cerebral ischemia-reperfusion injury. International Journal of Molecular Medicine, 2019, 43, 1879-1887.	4.0	26
24	Biomimetic synthesized bimodal nanoporous silica: Bimodal mesostructure formation and application for ibuprofen delivery. Materials Science and Engineering C, 2016, 58, 1105-1111.	7.3	25
25	A two-step strategy to design high bioavailable controlled-release nimodipine tablets: The pushâ€“pull osmotic pump in combination with the micronization/solid dispersion techniques. International Journal of Pharmaceutics, 2014, 461, 529-539.	5.2	24
26	Problematic Internet use and the risk of suicide ideation in Chinese adolescents: A cross-sectional analysis. Psychiatry Research, 2020, 290, 112963.	3.3	23
27	Bexarotene Reduces Blood-Brain Barrier Permeability in Cerebral Ischemia-Reperfusion Injured Rats. PLoS ONE, 2015, 10, e0122744.	2.5	23
28	Biomimetic synthesis and evaluation of histidine-derivative templated chiral mesoporous silica for improved oral delivery of the poorly water-soluble drug, nimodipine. European Journal of Pharmaceutical Sciences, 2018, 117, 321-330.	4.0	22
29	All-Trans Retinoic Acid Ameliorates the Early Experimental Cerebral Ischemiaâ€“Reperfusion Injury in Rats by Inhibiting the Loss of the Bloodâ€“Brain Barrier via the JNK/P38MAPK Signaling Pathway. Neurochemical Research, 2018, 43, 1283-1296.	3.3	22
30	Degradation of glutamate-based organogels for biodegradable implants: In vitro study and in vivo observation. Materials Science and Engineering C, 2018, 82, 80-90.	7.3	17
31	GDF11 Alleviates Pathological Myocardial Remodeling in Diabetic Cardiomyopathy Through SIRT1-Dependent Regulation of Oxidative Stress and Apoptosis. Frontiers in Cell and Developmental Biology, 2021, 9, 686848.	3.7	17
32	Modulation of the wettability of excipients by surfactant and its impacts on the disintegration and release of tablets. Drug Development and Industrial Pharmacy, 2016, 42, 1945-1955.	2.0	16
33	Bexarotene Attenuates Focal Cerebral Ischemiaâ€“Reperfusion Injury via the Suppression of JNK/Caspase-3 Signaling Pathway. Neurochemical Research, 2019, 44, 2809-2820.	3.3	16
34	Design and preparation of mesoporous silica carriers with chiral structures for drug release differentiation. Materials Science and Engineering C, 2019, 103, 109737.	7.3	16
35	Oral sustained-release suspension based on a novel taste-masked and mucoadhesive carrierâ€“ion-exchange fiber. International Journal of Pharmaceutics, 2014, 472, 74-81.	5.2	15
36	Tamibarotene Improves Hippocampus Injury Induced by Focal Cerebral Ischemia-Reperfusion via Modulating PI3K/Akt Pathway in Rats. Journal of Stroke and Cerebrovascular Diseases, 2019, 28, 1832-1840.	1.6	15

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37	Applying Supercritical Fluid Technology to Prepare Ibuprofen Solid Dispersions with Improved Oral Bioavailability. Pharmaceutics, 2019, 11, 67.	4.5	15
38	Chiral Mesoporous Silica Materials: A Review on Synthetic Strategies and Applications. Molecules, 2020, 25, 3899.	3.8	15
39	Evaluation of the Solid Dispersion System Engineered from Mesoporous Silica and Polymers for the Poorly Water Soluble Drug Indomethacin: In Vitro and In Vivo. Pharmaceutics, 2020, 12, 144.	4.5	14
40	Taohuajing reduces oxidative stress and inflammation in diabetic cardiomyopathy through the sirtuin 1/nucleotide-binding oligomerization domain-like receptor protein 3 pathway. BMC Complementary Medicine and Therapies, 2021, 21, 78.	2.7	14
41	Î²-N-Oxalyl-L-Î±,Î²-diaminopropionic acid from Panax notoginseng plays a major role in the treatment of type 2 diabetic nephropathy. Biomedicine and Pharmacotherapy, 2019, 114, 108801.	5.6	11
42	Mutual interaction between guest drug molecules and host nanoporous silica xerogel studied using central composite design. International Journal of Pharmaceutics, 2016, 498, 32-39.	5.2	9
43	Construction of calcium carbonate-liposome dual-film coated mesoporous silica as a delayed drug release system for antitumor therapy. Colloids and Surfaces B: Biointerfaces, 2022, 212, 112357.	5.0	9
44	Mesoporous silicas templated by heterocyclic amino acid derivatives: Biomimetic synthesis and drug release application. Materials Science and Engineering C, 2018, 93, 407-418.	7.3	8
45	Yohimbine hydrochloride inhibits benign prostatic hyperplasia by downregulating steroid 5Î±-reductase type 2. European Journal of Pharmacology, 2021, 908, 174334.	3.5	6
46	Fabrication of three-dimensional-printed ofloxacin gastric floating sustained-release tablets with different structures. Journal of Drug Delivery Science and Technology, 2022, 67, 102992.	3.0	6
47	The load and release characteristics on a strong cationic ion-exchange fiber: kinetics, thermodynamics, and influences. Drug Design, Development and Therapy, 2014, 8, 945.	4.3	5
48	Rapid Quantification of Melamine in Different Brands/Types of Milk Powders Using Standard Addition Net Analyte Signal and Near-Infrared Spectroscopy. Journal of Analytical Methods in Chemistry, 2016, 2016, 1-9.	1.6	5
49	Comparison of two kinds of docetaxel-vitamin E prodrugs: In vitro evaluation and in vivo antitumor activity. International Journal of Pharmaceutics, 2016, 505, 352-360.	5.2	5
50	An epirubicin-peptide conjugate with anticancer activity is dependent upon the expression level of the surface transferrin receptor. Molecular Medicine Reports, 2017, 15, 323-330.	2.4	5
51	Preparation and application of mesoporous core-shell nanosilica using leucine derivative as template in effective drug delivery. Chinese Chemical Letters, 2020, 31, 1165-1167.	9.0	5
52	Chiral mesoporous silica based LOFL delivery systems using achiral alcohols as co-structure-directing agents: Construction, characterization, sustained release and antibacterial activity. Colloids and Surfaces B: Biointerfaces, 2019, 184, 110483.	5.0	4
53	Design of chiral mesoporous silica nanorods using ursodeoxycholic acid/chenodeoxycholic acid and CTAB as templates for chiral-selective release of achiral drugs. Materials Letters, 2021, 285, 129144.	2.6	4
54	A feasible strategy based on isotopic fine structures to enhance the reliability of metabolite identification by Fourier transform ion cyclotron resonance mass spectrometry. Rapid Communications in Mass Spectrometry, 2020, 34, e8560.	1.5	3

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55	Successively triggered Rod-shaped protocells for enhanced tumor Chemo-Photothermal therapy. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 169, 1-11.	4.3	3
56	iTRAQ-derived quantitative proteomics uncovers the neuroprotective property of bexarotene in a mice model of cerebral ischemiaâ€“reperfusion injury. Saudi Pharmaceutical Journal, 2022, 30, 585-594.	2.7	3
57	Alanine modified chiral-responsive mesoporous silica as nanocarriers for improved oral bioavailability of carvedilol. Microporous and Mesoporous Materials, 2022, 330, 111634.	4.4	2
58	Preparation and dissolution characteristic evaluation of carvedilol-Kollicoat IR solid dispersions with HPMC and MC as combined carriers. Powder Technology, 2020, 360, 1220-1226.	4.2	1
59	A simplified strategy for molecular formula determination of chemical constituents in traditional Chinese medicines based on accurate mass, Aâ€‰+â€‰1 and Aâ€‰+â€‰2 isotopic peaks using Fourier transform ion cyclotron resonance mass spectrometry. Rapid Communications in Mass Spectrometry, 2020, 34, e8933.	1.5	1