Xian-Zhu Yang

List of Publications by Citations

117 papers	7,298 citations	41 h-index	84 g-index
122 ext. papers	8,470 ext. citations	11.1 avg, IF	6.09 L-index

#	Paper	IF	Citations
117	Ultrathin Black Phosphorus Nanosheets for Efficient Singlet Oxygen Generation. *Journal of the American Chemical Society*, **2015**, 137, 11376-82	16.4	715
116	Stimuli-responsive clustered nanoparticles for improved tumor penetration and therapeutic efficacy. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 4164-9	11.5	512
115	Smart Superstructures with Ultrahigh pH-Sensitivity for Targeting Acidic Tumor Microenvironment: Instantaneous Size Switching and Improved Tumor Penetration. *ACS Nano*, **2016**, 10, 6753-61	16.7	377
114	Polyethylene glycol and polyethylenimine dual-functionalized nano-graphene oxide for photothermally enhanced gene delivery. *Small*, **2013**, 9, 1989-97	11	336
113	Tumor Acidity-Sensitive Polymeric Vector for Active Targeted siRNA Delivery. *Journal of the American Chemical Society*, **2015**, 137, 15217-24	16.4	256
112	Lipase-sensitive polymeric triple-layered nanogel for "on-demand" drug delivery. *Journal of the American Chemical Society*, **2012**, 134, 4355-62	16.4	253
111	Sheddable ternary nanoparticles for tumor acidity-targeted siRNA delivery. *ACS Nano*, **2012**, 6, 771-81	16.7	246
110	Bacteria-responsive multifunctional nanogel for targeted antibiotic delivery. *Advanced Materials*, **2012**, 24, 6175-80	24	203
109	Systemic delivery of siRNA with cationic lipid assisted PEG-PLA nanoparticles for cancer therapy. *Journal of Controlled Release*, **2011**, 156, 203-11	11.7	188
108	Delivery of antibiotics with polymeric particles. *Advanced Drug Delivery Reviews*, **2014**, 78, 63-76	18.5	182
107	Recent progress in polyphosphoesters: from controlled synthesis to biomedical applications. *Macromolecular Bioscience*, **2009**, 9, 1154-64	5.5	180
106	Tumor extracellular acidity-activated nanoparticles as drug delivery systems for enhanced cancer therapy. *Biotechnology Advances*, **2014**, 32, 789-803	17.8	147
105	Semiconducting polymer-based nanoparticles with strong absorbance in NIR-II window for in□vivo photothermal therapy and photoacoustic imaging. *Biomaterials*, **2018**, 155, 103-111	15.6	142
104	Cancer stem cell therapy using doxorubicin conjugated to gold nanoparticles via hydrazone bonds. *Biomaterials*, **2014**, 35, 836-45	15.6	133
103	Spatial Targeting of Tumor-Associated Macrophages and Tumor Cells with a pH-Sensitive Cluster Nanocarrier for Cancer Chemoimmunotherapy. *Nano Letters*, **2017**, 17, 3822-3829	11.5	120
102	Co-delivery of all-trans-retinoic acid and doxorubicin for cancer therapy with synergistic inhibition of cancer stem cells. *Biomaterials*, **2015**, 37, 405-14	15.6	119
101	Rational design of polyion complex nanoparticles to overcome cisplatin resistance in cancer therapy. *Advanced Materials*, **2014**, 26, 931-6	24	119

100	Macrophage-Specific in Vivo Gene Editing Using Cationic Lipid-Assisted Polymeric Nanoparticles. *ACS Nano*, **2018**, 12, 994-1005	16.7	114
99	Single-step assembly of cationic lipid-polymer hybrid nanoparticles for systemic delivery of siRNA. *ACS Nano*, **2012**, 6, 4955-65	16.7	114
98	Tumor Acidity/NIR Controlled Interaction of Transformable Nanoparticle with Biological Systems for Cancer Therapy. *Nano Letters*, **2017**, 17, 2871-2878	11.5	99
97	ROS-sensitive thioketal-linked polyphosphoester-doxorubicin conjugate for precise phototriggered locoregional chemotherapy. *Biomaterials*, **2019**, 188, 74-82	15.6	98
96	Tunable Thermosensitivity of Biodegradable Polymer Micelles of Poly(ε-caprolactone) and Polyphosphoester Block Copolymers. *Macromolecules*, **2009**, 42, 3026-3032	5.5	91
95	Tumor acidity-sensitive linkage-bridged block copolymer for therapeutic siRNA delivery. *Biomaterials*, **2016**, 88, 48-59	15.6	87
94	Matrix metalloproteinase 2-responsive micelle for siRNA delivery. *Biomaterials*, **2014**, 35, 7622-34	15.6	87
93	ROS-Sensitive Polymeric Nanocarriers with Red Light-Activated Size Shrinkage for Remotely Controlled Drug Release. *Chemistry of Materials*, **2018**, 30, 517-525	9.6	82
92	Targeting of NLRP3 inflammasome with gene editing for the amelioration of inflammatory diseases. *Nature Communications*, **2018**, 9, 4092	17.4	80
91	Responsive Nanocarriers as an Emerging Platform for Cascaded Delivery of Nucleic Acids to Cancer. *Advanced Drug Delivery Reviews*, **2017**, 115, 98-114	18.5	76
90	Chemotaxis-driven delivery of nano-pathogenoids for complete eradication of tumors post-phototherapy. *Nature Communications*, **2020**, 11, 1126	17.4	75
89	The potentiated checkpoint blockade immunotherapy by ROS-responsive nanocarrier-mediated cascade chemo-photodynamic therapy. *Biomaterials*, **2019**, 223, 119469	15.6	73
88	Regulating the surface poly(ethylene glycol) density of polymeric nanoparticles and evaluating its role in drug delivery in vivo. *Biomaterials*, **2015**, 69, 1-11	15.6	71
87	Photoinduced PEG deshielding from ROS-sensitive linkage-bridged block copolymer-based nanocarriers for on-demand drug delivery. *Biomaterials*, **2018**, 170, 147-155	15.6	71
86	Cascade-amplifying synergistic effects of chemo-photodynamic therapy using ROS-responsive polymeric nanocarriers. *Theranostics*, **2018**, 8, 2939-2953	12.1	63
85	NIR-Activated Supersensitive Drug Release Using Nanoparticles with a Flow Core. *Advanced Functional Materials*, **2016**, 26, 7516-7525	15.6	58
84	Doxorubicin conjugate of poly(ethylene glycol)-block-polyphosphoester for cancer therapy. *Advanced Healthcare Materials*, **2014**, 3, 261-72	10.1	57
83	Optimizing the Size of Micellar Nanoparticles for Efficient siRNA Delivery. *Advanced Functional Materials*, **2015**, 25, 4778-4787	15.6	55

82	Synthesis and characterization of amphiphilic block copolymer of polyphosphoester and poly(L-lactic acid). *Journal of Polymer Science Part A*, **2008**, 46, 6425-6434	2.5	54
81	Rod-based urchin-like hollow microspheres of BiS: Facile synthesis, photo-controlled drug release for photoacoustic imaging and chemo-photothermal therapy of tumor ablation. *Biomaterials*, **2020**, 237, 119835	15.6	50
80	A Donor-Acceptor Conjugated Polymer with Alternating Isoindigo Derivative and Bithiophene Units for Near-Infrared Modulated Cancer Thermo-Chemotherapy. *ACS Applied Materials & Interfaces* , **2016**, 8, 19312-20	9.5	49
79	Block copolymer of polyphosphoester and poly(L-lactic acid) modified surface for enhancing osteoblast adhesion, proliferation, and function. *Biomacromolecules*, **2009**, 10, 2213-20	6.9	49
78	Tumor acidity-activatable TAT targeted nanomedicine for enlarged fluorescence/magnetic resonance imaging-guided photodynamic therapy. *Biomaterials*, **2017**, 133, 165-175	15.6	45
77	Synthetic lethal therapy for KRAS mutant non-small-cell lung carcinoma with nanoparticle-mediated CDK4 siRNA delivery. *Molecular Therapy*, **2014**, 22, 964-73	11.7	44
76	Photodynamic therapy produces enhanced efficacy of antitumor immunotherapy by simultaneously inducing intratumoral release of sorafenib. *Biomaterials*, **2020**, 240, 119845	15.6	40
75	Redox-Responsive Polyphosphoester-Based Micellar Nanomedicines for Overriding Chemoresistance in Breast Cancer Cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 26315-25	9.5	40
74	Nanoparticles encapsulating hepatitis B virus cytosine-phosphate-guanosine induce therapeutic immunity against HBV infection. *Hepatology*, **2014**, 59, 385-94	11.2	39
73	Chlorin e6-Encapsulated Polyphosphoester Based Nanocarriers with Viscous Flow Core for Effective Treatment of Pancreatic Cancer. *ACS Applied Materials & Interfaces*, **2015**, 7, 18856-65	9.5	38
72	Design of Tumor Acidity-Responsive Sheddable Nanoparticles for Fluorescence/Magnetic Resonance Imaging-Guided Photodynamic Therapy. *Theranostics*, **2017**, 7, 1290-1302	12.1	38
71	Investigating the Effect of Chemical Structure of Semiconducting Polymer Nanoparticle on Photothermal Therapy and Photoacoustic Imaging. *Theranostics*, **2017**, 7, 4029-4040	12.1	38
70	Controlled synthesis of upconverting nanoparticles/CuS yolk-shell nanoparticles for in vitro synergistic photothermal and photodynamic therapy of cancer cells. *Journal of Materials Chemistry B*, **2017**, 5, 9487-9496	7.3	37
69	Effect of hydrophobicity of core on the anticancer efficiency of micelles as drug delivery carriers. *ACS Applied Materials & Interfaces*, **2014**, 6, 22709-18	9.5	36
68	Anti-Her2 single-chain antibody mediated DNMTs-siRNA delivery for targeted breast cancer therapy. *Journal of Controlled Release*, **2012**, 161, 875-83	11.7	34
67	Facile Hydrophobization of siRNA with Anticancer Drug for Non-Cationic Nanocarrier-Mediated Systemic Delivery. *Nano Letters*, **2019**, 19, 2688-2693	11.5	31
66	Polymeric-Micelle-Based Nanomedicine for siRNA Delivery. *Particle and Particle Systems Characterization*, **2013**, 30, 211-228	3.1	30
65	Novel doxorubicin loaded PEGylated cuprous telluride nanocrystals for combined photothermal-chemo cancer treatment. *Colloids and Surfaces B: Biointerfaces*, **2017**, 152, 449-458	6	29

64	Acetal-Linked Hyperbranched Polyphosphoester Nanocarriers Loaded with Chlorin e6 for pH-Activatable Photodynamic Therapy. *ACS Applied Materials & Interfaces*, **2018**, 10, 21198-21205	9.5	29
63	ScFv-decorated PEG-PLA-based nanoparticles for enhanced siRNA delivery to Her2+ breast cancer. *Advanced Healthcare Materials*, **2014**, 3, 1792-803	10.1	29
62	Synthesis of an Oxidation-Sensitive Polyphosphoester Bearing Thioether Group for Triggered Drug Release. *Biomacromolecules*, **2019**, 20, 1740-1747	6.9	28
61	Cationic lipid-assisted polymeric nanoparticle mediated GATA2 siRNA delivery for synthetic lethal therapy of KRAS mutant non-small-cell lung carcinoma. *Molecular Pharmaceutics*, **2014**, 11, 2612-22	5.6	28
60	Carrier-free nanoassembly of doxorubicin prodrug and siRNA for combinationally inducing immunogenic cell death and reversing immunosuppression. *Nano Today*, **2020**, 35, 100924	17.9	28
59	ROS-Activatable siRNA-Engineered Polyplex for NIR-Triggered Synergistic Cancer Treatment. *ACS Applied Materials & Interfaces*, **2020**, 12, 32289-32300	9.5	27
58	Synthesis of polypeptide conjugated with near infrared fluorescence probe and doxorubicin for pH-responsive and image-guided drug delivery. *Journal of Materials Chemistry*, **2012**, 22, 22290		26
57	Sequential growth of CaF:Yb,Er@CaF:Gd nanoparticles for efficient magnetic resonance angiography and tumor diagnosis. *Biomaterials Science*, **2017**, 5, 2403-2415	7.4	25
56	A block copolymer of zwitterionic polyphosphoester and polylactic acid for drug delivery. *Biomaterials Science*, **2015**, 3, 1105-13	7.4	25
55	PEGylated hyperbranched polyphosphoester based nanocarriers for redox-responsive delivery of doxorubicin. *Biomaterials Science*, **2016**, 4, 412-7	7.4	24
54	Brush-shaped polycation with poly(ethylenimine)-b-poly(ethylene glycol) side chains as highly efficient gene delivery vector. *International Journal of Pharmaceutics*, **2010**, 392, 118-26	6.5	24
53	Corn-like Au/Ag nanorod-mediated NIR-II photothermal/photodynamic therapy potentiates immune checkpoint antibody efficacy by reprogramming the cold tumor microenvironment. *Biomaterials*, **2021**, 268, 120582	15.6	24
52	Photoswitchable Ultrafast Transactivator of Transcription (TAT) Targeting Effect for Nanocarrier-Based On-Demand Drug Delivery. *Advanced Functional Materials*, **2018**, 28, 1704806	15.6	24
51	Ferrimagnetic mPEG--PHEP copolymer micelles loaded with iron oxide nanocubes and emodin for enhanced magnetic hyperthermia-chemotherapy. *National Science Review*, **2020**, 7, 723-736	10.8	23
50	Mesoporous-silica-coated upconversion nanoparticles loaded with vitamin B12 for near-infrared-light mediated photodynamic therapy. *Materials Letters*, **2016**, 167, 205-208	3.3	23
49	Near infrared fluorescence probe and galactose conjugated amphiphilic copolymer for bioimaging of HepG2 cells and endocytosis. *Polymer Chemistry*, **2013**, 4, 4442	4.9	23
48	Sequential growth of sandwiched NaYF4:Yb/Er@NaYF4:Yb@NaNdF4:Yb core–shell–shell nanoparticles for photodynamic therapy. *Applied Surface Science*, **2015**, 357, 2408-2414	6.7	23
47	Immunomodulating nano-adaptors potentiate antibody-based cancer immunotherapy. *Nature Communications*, **2021**, 12, 1359	17.4	23

46	Polyphosphoester-based nanoparticles with viscous flow core enhanced therapeutic efficacy by improved intracellular drug release. *ACS Applied Materials & Interfaces*, **2014**, 6, 16174-81	9.5	22
45	Intratumoral delivery of CCL25 enhances immunotherapy against triple-negative breast cancer by recruiting CCR9 T cells. *Science Advances*, **2020**, 6, eaax4690	14.3	21
44	Biocompatible and functionalizable polyphosphate nanogel with a branched structure. *Journal of Materials Chemistry*, **2012**, 22, 9322		21
43	Encapsulation of cisplatin in a pegylated calcium phosphate nanoparticle (CPNP) for enhanced cytotoxicity to cancerous cells. *Journal of Colloid and Interface Science*, **2017**, 493, 181-189	9.3	20
42	Protein Binding Affinity of Polymeric Nanoparticles as a Direct Indicator of Their Pharmacokinetics. *ACS Nano*, **2020**, 14, 3563-3575	16.7	20
41	On-demand PEGylation and dePEGylation of PLA-based nanocarriers amphiphilic mPEG--Ce6 for nanoenabled cancer chemotherapy. *Theranostics*, **2019**, 9, 8312-8320	12.1	20
40	Surface-modulated and thermoresponsive polyphosphoester nanoparticles for enhanced intracellular drug delivery. *Science China Chemistry*, **2014**, 57, 579-585	7.9	19
39	Silica/ultrasmall Ag composite microspheres: facile synthesis, characterization and antibacterial and catalytic performance. *CrystEngComm*, **2014**, 16, 2365-2370	3.3	19
38	Development of "CLAN" Nanomedicine for Nucleic Acid Therapeutics. *Small*, **2019**, 15, e1900055	11	18
37	Acidity-triggered TAT-presenting nanocarriers augment tumor retention and nuclear translocation of drugs. *Nano Research*, **2018**, 11, 5716-5734	10	18
36	Direct Nucleus-Targeted Drug Delivery Using Cascade pH /Photo Dual-Sensitive Polymeric Nanocarrier for Cancer Therapy. *Small*, **2019**, 15, e1902022	11	17
35	Synthesis and thermoresponsive behaviors of biodegradable Pluronic analogs. *Journal of Polymer Science Part A*, **2009**, 47, 6168-6179	2.5	16
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33	Decoration of upconversion nanoparticles@mSiO2 core□shell nanostructures with CdS nanocrystals for excellent infrared light triggered photocatalysis. *RSC Advances*, **2016**, 6, 54241-54248	3.7	14
32	ROS-Sensitive Cross-Linked Polyethylenimine for Red-Light-Activated siRNA Therapy. *ACS Applied Materials & Interfaces*, **2019**, 11, 1855-1863	9.5	14
31	Ultrafast charge-conversional nanocarrier for tumor-acidity-activated targeted drug elivery. *Biomaterials Science*, **2018**, 6, 350-355	7.4	14
30	Reactive oxygen species-sensitive polymeric nanocarriers for synergistic cancer therapy. *Acta Biomaterialia*, **2021**, 130, 17-31	10.8	14
29	Enhanced drug delivery to hepatocellular carcinoma with a galactosylated core-shell polyphosphoester nanogel. *Biomaterials Science*, **2013**, 1, 1143-1150	7.4	13

28	Oxidation-sensitive polymeric nanocarrier-mediated cascade PDT chemotherapy for synergistic cancer therapy and potentiated checkpoint blockade immunotherapy. *Chemical Engineering Journal* , **2021**, 404, 126481	14.7	12
27	Injectable Supramolecular Hydrogel for Locoregional Immune Checkpoint Blockade and Enhanced Cancer Chemo-Immunotherapy. *ACS Applied Materials & Interfaces*, **2021**, 13, 33874-33884	9.5	11
26	Precise Depletion of Tumor Seed and Growing Soil with Shrinkable Nanocarrier for Potentiated Cancer Chemoimmunotherapy. *ACS Nano*, **2021**, 15, 4636-4646	16.7	11
25	Engineering of a universal polymeric nanoparticle platform to optimize the PEG density for photodynamic therapy. *Science China Chemistry*, **2019**, 62, 1379-1386	7.9	9
24	Simultaneous elimination of cancer stem cells and bulk cancer cells by cationic-lipid-assisted nanoparticles for cancer therapy. *Nano Research*, **2018**, 11, 4183-4198	10	8
23	Photo-Enhanced CRISPR/Cas9 System Enables Robust PD-L1 Gene Disruption in Cancer Cells and Cancer Stem-Like Cells for Efficient Cancer Immunotherapy. *Small*, **2020**, 16, e2004879	11	8
22	Magnetically Actuated Active Deep Tumor Penetration of Deformable Large Nanocarriers for Enhanced Cancer Therapy. *Advanced Functional Materials*, **2021**, 31, 2103655	15.6	8
21	A polymeric nanocarrier with a tumor acidity-activatable arginine-rich (R) peptide for enhanced drug delivery. *Biomaterials Science*, **2020**, 8, 2255-2263	7.4	7
20	HPMC/PAA hybrid nanogels via aqueous-phase synthesis for controlled delivery of insulin. *Biomaterials Science*, **2014**, 2, 1761-1767	7.4	7
19	Silica-based hybrid microspheres: synthesis, characterization and wastewater treatment. *RSC Advances*, **2013**, 3, 25620	3.7	6
18	Fabrication of Upconverting Hybrid Nanoparticles for Near-Infrared Light Triggered Drug Release. *Advances in Materials Science and Engineering*, **2014**, 2014, 1-9	1.5	4
17	Microfluidic synthesis of manganese-alginate nanogels with self-supplying H2O2 capability for synergistic chemo/chemodynamic therapy and boosting anticancer immunity. *Chemical Engineering Journal*, **2022**, 435, 134926	14.7	4
16	A cascade dual-targeted nanocarrier for enhanced alectinib delivery to ALK-positive lung cancer. *Biomaterials Science*, **2020**, 8, 6404-6413	7.4	4
15	A siRNA-Assisted Assembly Strategy to Simultaneously Suppress "Self" and Upregulate "Eat-Me" Signals for Nanoenabled Chemo-Immunotherapy. *ACS Nano*, **2021**, 15, 16030-16042	16.7	4
14	A tumor acidity-driven transformable polymeric nanoassembly with deep tumor penetration and membrane-anchoring capability for targeted photodynamic therapy. *Biomaterials*, **2021**, 276, 121024	15.6	4
13	Injectable hydrogel-mediated combination of hyperthermia ablation and photo-enhanced chemotherapy in the NIR-II window for tumor eradication. *Biomaterials Science*, **2021**, 9, 3516-3525	7.4	3
12	Bioorthogonal in situ assembly of nanomedicines as drug depots for extracellular drug delivery.. *Nature Communications*, **2022**, 13, 2038	17.4	3
11	A nanoconfined loading strategy for highly efficient siRNA delivery and cancer therapy. *Nano Today* , **2022**, 43, 101418	17.9	2

10	Red and NIR Light-Responsive Polymeric Nanocarriers for On-Demand Drug Delivery. *Current Medicinal Chemistry*, **2020**, 27, 3877-3887	4.3	2
9	Extracellular pH-Activated Nanocarriers for Enhanced Drug Delivery to Tumors **2014**, 277-304		1
8	Regulation of hydrophobicity of polyphosphoester based drug delivery system for enhanced cancer therapy. *Journal of Controlled Release*, **2015**, 213, e23	11.7	1
7	Multiresponsive Polymer Assemblies Achieved by a Subtle Chain Terminal Modification. *Chinese Journal of Chemistry*, **2014**, 32, 51-56	4.9	1
6	Tumor Extracellular Acidity-Sensitive Polymeric Nanocarriers for Drug Delivery and Cancer Therapy. *Frontiers in Nanobiomedical Research*, **2017**, 175-193		
5	Enhanced therapeutic efficacy with hydrophobic polyphosphoester-based nanoparticles via improved intracellular drug release. *Journal of Controlled Release*, **2015**, 213, e117	11.7	
4	Development of Cationic Lipid-Assisted PEG-b-PLA Nanoparticle for Nucleic Acid Therapeutics. *Biomaterial Engineering*, **2021**, 1-13	0.3	
3	Tumor Extracellular Acidity-Sensitive Polymeric Nanocarriers for Drug Delivery and Cancer Therapy. *Frontiers in Nanobiomedical Research*, **2017**, 175-193		
2	Chapter 7:Polymeric Micelle-Based Nanomedicine for siRNA Delivery. *RSC Polymer Chemistry Series*, **2013**, 158-189	1.3	
1	Development of Cationic Lipid-Assisted PEG-b-PLA Nanoparticle for Nucleic Acid Therapeutics. *Biomaterial Engineering*, **2022**, 543-554	0.3	