The expanding role of prodrugs in contemporary drug of

Nature Reviews Drug Discovery 17, 559-587 DOI: 10.1038/nrd.2018.46

Citation Report

#	Article	IF	CITATIONS
1	Antitumor activity of the bioreductive prodrug 3-(2-nitrophenyl) propionic acid-paclitaxel nanoparticles (NPPA-PTX NPs) on MDA-MB-231 cells: in vitro and in vivo. International Journal of Nanomedicine, 2019, Volume 14, 195-204.	3.3	6
2	Mannoseâ€Functionalized Nanoscaffolds for Targeted Delivery in Biomedical Applications. Chemistry - an Asian Journal, 2018, 13, 3448-3459.	1.7	43
3	Bypassing Endocytosis: Direct Cytosolic Delivery of Proteins. Journal of the American Chemical Society, 2018, 140, 15986-15996.	6.6	158
4	Disulfide-based PEGylated prodrugs: Reconversion kinetics, self-assembly and antitumor efficacy. Colloids and Surfaces B: Biointerfaces, 2018, 172, 414-422.	2.5	6
5	Methotrexate prodrugs sensitive to reactive oxygen species for the improved treatment of rheumatoid arthritis. European Journal of Medicinal Chemistry, 2018, 156, 738-746.	2.6	22
6	ProTide generated long-acting abacavir nanoformulations. Chemical Communications, 2018, 54, 8371-8374.	2.2	17
7	A light-responsive, self-immolative linker for controlled drug delivery <i>via</i> peptide- and protein-drug conjugates. Chemical Science, 2019, 10, 8973-8980.	3.7	26
8	Rapid generation of novel benzoic acid–based xanthine derivatives as highly potent, selective and long acting DPP-4 inhibitors: Scaffold-hopping and prodrug study. European Journal of Medicinal Chemistry, 2019, 180, 509-523.	2.6	12
9	Is prodrug design an approach to increase water solubility?. International Journal of Pharmaceutics, 2019, 568, 118498.	2.6	62
10	Arylboronate prodrugs of doxorubicin as promising chemotherapy for pancreatic cancer. Bioorganic Chemistry, 2019, 91, 103158.	2.0	20
11	Strategies to Improve Resveratrol Systemic and Topical Bioavailability: An Update. Antioxidants, 2019, 8, 244.	2.2	85
12	Introduction of the α-ketoamide structure: en route to develop hydrogen peroxide responsive prodrugs. Chemical Science, 2019, 10, 7156-7162.	3.7	26
13	Phosphonate prodrugs: an overview and recent advances. Future Medicinal Chemistry, 2019, 11, 1625-1643.	1.1	64
14	Molecular dynamics insights on the role βâ€augmentation of the peptide Nâ€ŧerminus with binding site βâ€hairpin of proprotein convertase subtilisin/kexin 9. Chemical Biology and Drug Design, 2019, 94, 2073-2083.	1.5	1
15	Glutamine antagonism attenuates physical and cognitive deficits in a model of MS. Neurology: Neuroimmunology and NeuroInflammation, 2019, 6, .	3.1	12
16	Enhanced Oral Bioavailability of 2-(Phosphonomethyl)-pentanedioic Acid (2-PMPA) from its (5-Methyl-2-oxo-1,3-dioxol-4-yl)methyl (ODOL)-Based Prodrugs. Molecular Pharmaceutics, 2019, 16, 4292-4301.	2.3	13
17	A Bioreductive Prodrug of Cucurbitacin B Significantly Inhibits Tumor Growth in the 4T1 Xenograft Mice Model. ACS Medicinal Chemistry Letters, 2019, 10, 1400-1406.	1.3	13
18	In silico approaches and tools for the prediction of drug metabolism and fate: A review. Computers in Biology and Medicine, 2019, 106, 54-64.	3.9	76

ARTICLE IF CITATIONS # Fabrication of redox-responsive doxorubicin and paclitaxel prodrug nanoparticles with microfluidics 19 2.6 50 for selective cancer therapy. Biomaterials Science, 2019, 7, 634-644. Cathepsin-sensitive nanoscale drug delivery systems for cancer therapy and other diseases. Advanced 6.6 Drug Delivery Reviews, 2019, 151-152, 130-151. Mussel-Derived, Cancer-Targeting Peptide as pH-Sensitive Prodrug Nanocarrier. ACS Applied Materials 21 4.0 50 & Interfaces, 2019, 11, 23948-23956. Pharmacokinetics and Clinical Pharmacology Considerations of GalNAc₃-Conjugated Antisense Oligonucleotides. Expert Opinion on Drug Metabolism and Toxicology, 2019, 15, 475-485. The Application of Isoacyl Structural Motifs in Prodrug Design and Peptide Chemistry. ChemBioChem, 23 1.3 3 2019, 20, 2017-2031. Terbium(III) Luminescence-Based Assay for Esterase Activity. Analytical Chemistry, 2019, 91, 8615-8621. 3.2 Therapeutic Methacrylic Comonomers for Covalently Controlled Release from Mechanically Robust 25 2.2 6 Bone Cement: Kinetics and Structureâ€"Function Relationships. Macromolecules, 2019, 52, 3775-3786. Molecular Modeling-Guided Design of Phospholipid-Based Prodrugs. International Journal of 1.8 26 16 Molecular Sciences, 2019, 20, 2210. Prodrug strategies for targeted therapy triggered by reactive oxygen species. MedChemComm, 2019, 10, 27 3.5 64 1531-1549. Phospholipid-Based Prodrugs for Colon-Targeted Drug Delivery: Experimental Study and In-Silico Simulations. Pharmaceutics, 2019, 11, 186. Optimization of Peptidomimetics as Selective Inhibitors for the Î²-Catenin/T-Cell Factor Protein–Protein 29 2.9 18 Interaction. Journal of Medicinal Chemistry, 2019, 62, 3617-3635. The Promise of Long-Acting Antiretroviral Therapies: From Need to Manufacture. Trends in Microbiology, 2019, 27, 593-606. 29 Catalytic asymmetric acetalization of carboxylic acids for access to chiral phthalidyl ester prodrugs. $\mathbf{31}$ 5.8 37 Nature Communications, 2019, 10, 1675. Signed, Sealed, Delivered: Conjugate and Prodrug Strategies as Targeted Delivery Vectors for Antibiotics. ACS Infectious Diseases, 2019, 5, 816-828. 1.8 Design, Synthesis, and Pharmacokinetic Evaluation of Phosphate and Amino Acid Ester Prodrugs for Improving the Oral Bioavailability of the HIV-1 Protease Inhibitor Atazanavir. Journal of Medicinal 33 2.9 26 Chemistry, 2019, 62, 3553-3574. From poly(alkyl cyanoacrylate) to squalene as core material for the design of nanomedicines. Journal of Drug Targeting, 2019, 27, 470-501. Intracellular Activation of a Prostate Specific Antigen-Cleavable Doxorubicin Prodrug: A Key Feature 35 2.311 Toward Prodrug-Nanomedicine Design. Molecular Pharmaceutics, 2019, 16, 1573-1585. Process Development of an Efficient and Cost-Effective Telescoping Route to a Key Synthetic Precursor for the Preparation of a Renin Inhibitor. Organic Process Research and Development, 2019, 1.3 23, 499-511.

CITATION REPORT

#	Article	IF	CITATIONS
37	New prodrug polymers functionalized based on Maleimide. Journal of Physics: Conference Series, 2019, 1294, 052031.	0.3	0
38	Development of Prodrugs for PDT-Based Combination Therapy Using a Singlet-Oxygen-Sensitive Linker and Quantitative Systems Pharmacology. Journal of Clinical Medicine, 2019, 8, 2198.	1.0	14
39	Alliance with EPR Effect: Combined Strategies to Improve the EPR Effect in the Tumor Microenvironment. Theranostics, 2019, 9, 8073-8090.	4.6	226
40	Prodrugs in combination with nanocarriers as a strategy for promoting antitumoral efficiency. Future Medicinal Chemistry, 2019, 11, 2131-2150.	1.1	19
41	The prospects of lipidic prodrugs: an old approach with an emerging future. Future Medicinal Chemistry, 2019, 11, 2563-2571.	1.1	12
42	Drug Concentration Asymmetry in Tissues and Plasma for Small Molecule–Related Therapeutic Modalities. Drug Metabolism and Disposition, 2019, 47, 1122-1135.	1.7	79
43	The prodrug approach in the era of drug design. Expert Opinion on Drug Delivery, 2019, 16, 1-5.	2.4	64
44	Structural basis for prodrug recognition by the SLC15 family of proton-coupled peptide transporters. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 804-809.	3.3	43
45	Starburst Diblock Polyprodrugs: Reduction-Responsive Unimolecular Micelles with High Drug Loading and Robust Micellar Stability for Programmed Delivery of Anticancer Drugs. Biomacromolecules, 2019, 20, 1190-1202.	2.6	44
46	Current status and contemporary approaches to the discovery of antitumor agents from higher plants. Biotechnology Advances, 2020, 38, 107337.	6.0	72
47	Betulin and its derivatives as novel compounds with different pharmacological effects. Biotechnology Advances, 2020, 38, 107409.	6.0	158
48	Pyrimidine Analogues as a New Class of Gram-Positive Antibiotics, Mainly Targeting Thymineless-Death Related Proteins. ACS Infectious Diseases, 2020, 6, 1490-1500.	1.8	10
49	Lipid droplets can promote drug accumulation and activation. Nature Chemical Biology, 2020, 16, 206-213.	3.9	45
50	Coordinating bioorthogonal reactions with two tumor-microenvironment-responsive nanovehicles for spatiotemporally controlled prodrug activation. Chemical Science, 2020, 11, 2155-2160.	3.7	22
51	Design, Synthesis, and Characterization of a Paclitaxel Formulation Activated by Extracellular MMP9. Bioconjugate Chemistry, 2020, 31, 781-793.	1.8	7
52	Minor chemical modifications of the aminosteroid derivative RM-581 lead to major impact on its anticancer activity, metabolic stability and aqueous solubility. European Journal of Medicinal Chemistry, 2020, 188, 111990.	2.6	6
53	Synthesis and Characterization of Long-Acting Darunavir Prodrugs. Molecular Pharmaceutics, 2020, 17, 155-166.	2.3	11
54	Design and Catalyzed Activation of Tak-242 Prodrugs for Localized Inhibition of TLR4-Induced Inflammation. ACS Medicinal Chemistry Letters, 2020, 11, 141-146.	1.3	20

#	Article	IF	CITATIONS
55	Corrections of Molecular Morphology and Hydrogen Bond for Improved Crystal Density Prediction. Molecules, 2020, 25, 161.	1.7	11
56	Auxiliary in vitro and in vivo biological evaluation of hydrogen peroxide sensitive prodrugs of methotrexate and aminopterin for the treatment of rheumatoid arthritis. Bioorganic and Medicinal Chemistry, 2020, 28, 115247.	1.4	9
57	Structural Refinement of Glucagon for Therapeutic Use. Journal of Medicinal Chemistry, 2020, 63, 3447-3460.	2.9	12
58	Predicting Metabolismâ€Related Drug–Drug Interactions Using a Microphysiological Multitissue System. Advanced Biology, 2020, 4, e2000079.	3.0	16
59	Probing the Superiority of Diselenium Bond on Docetaxel Dimeric Prodrug Nanoassemblies: Small Roles Taking Big Responsibilities. Small, 2020, 16, e2005039.	5.2	63
60	Poly(Aspartic Acid) Functionalized Poly(ϵ-Caprolactone) Microspheres with Enhanced Hydroxyapatite Affinity as Bone Targeting Antibiotic Carriers. Pharmaceutics, 2020, 12, 885.	2.0	17
61	Identification of a 3-β-homoalanine conjugate of brusatol with reduced toxicity in mice. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127553.	1.0	4
62	Nano-Fragrance with pH-Sensitive Release Property for Improvement of Central Nervous System. Journal of Biomedical Nanotechnology, 2020, 16, 193-200.	0.5	0
63	Targeting succinate dehydrogenase with malonate ester prodrugs decreases renal ischemia reperfusion injury. Redox Biology, 2020, 36, 101640.	3.9	42
64	Photoactivatable Protherapeutic Nanomedicine for Cancer. Advanced Materials, 2020, 32, e2002661.	11.1	157
65	The Most Common Functional Groups in Bioactive Molecules and How Their Popularity Has Evolved over Time. Journal of Medicinal Chemistry, 2020, 63, 8408-8418.	2.9	163
66	Controlled drug delivery with nanoassemblies of redox-responsive prodrug and polyprodrug amphiphiles. Journal of Controlled Release, 2020, 326, 276-296.	4.8	52
67	Toward the Identification of Novel Antimicrobial Agents: One-Pot Synthesis of Lipophilic Conjugates of N-Alkyl d- and l-Iminosugars. Marine Drugs, 2020, 18, 572.	2.2	5
68	Self-Assembled Disulfide Bond Bearing Paclitaxel—Camptothecin Prodrug Nanoparticle for Lung Cancer Therapy. Pharmaceutics, 2020, 12, 1169.	2.0	16
69	Activation and Delivery of Tetrazine-Responsive Bioorthogonal Prodrugs. Molecules, 2020, 25, 5640.	1.7	15
70	Supramolecular behaviour and fluorescence of rhodamine-functionalised ROMP polymers. Polymer Chemistry, 2020, 11, 5279-5285.	1.9	5
71	Uracil-Containing Heterodimers of a New Type: Synthesis and Study of Their Anti-Viral Properties. Molecules, 2020, 25, 3350.	1.7	5
72	Design and in vivo activity of A3 adenosine receptor agonist prodrugs. Purinergic Signalling, 2020, 16, 367-377.	1.1	13

#	Article	IF	CITATIONS
73	Anticancer boron-containing prodrugs responsive to oxidative stress from the tumor microenvironment. European Journal of Medicinal Chemistry, 2020, 207, 112670.	2.6	45
74	The Critical Role of Passive Permeability in Designing Successful Drugs. ChemMedChem, 2020, 15, 1862-1874.	1.6	53
76	Emerging insights on drug delivery by fatty acid mediated synthesis of lipophilic prodrugs as novel nanomedicines. Journal of Controlled Release, 2020, 326, 556-598.	4.8	49
77	Preparation and Evaluation of Amino Acid Conjugates of Celecoxib as Prodrugs to Improve the Pharmacokinetic and Therapeutic Properties of Celecoxib. Pharmaceutics, 2020, 12, 1043.	2.0	1
78	(Carbonyl)oxyalkyl linker-based amino acid prodrugs of the HIV-1 protease inhibitor atazanavir that enhance oral bioavailability and plasma trough concentration. European Journal of Medicinal Chemistry, 2020, 207, 112749.	2.6	5
79	Small Molecule Inhibitors Targeting Heat Shock Response Pathways: Lessons from Clinical and Preclinical Studies in Cancer Therapeutics. Heat Shock Proteins, 2020, , 79-99.	0.2	Ο
80	Bifunctional and Unusual Amino Acid β- or γ-Ester Prodrugs of Nucleoside Analogues for Improved Affinity to ATB ^{0,+} and Enhanced Metabolic Stability: An Application to Floxuridine. Journal of Medicinal Chemistry, 2020, 63, 10816-10828.	2.9	7
81	Separation of saccharides using fullerene-bonded silica monolithic columns via π interactions in liquid chromatography. Scientific Reports, 2020, 10, 13850.	1.6	8
82	Expression pattern of brain-derived neurotrophic factor and its associated receptors: Implications for exogenous neurotrophin application. Hearing Research, 2022, 413, 108098.	0.9	12
83	Prodrugs for Improved Drug Delivery: Lessons Learned from Recently Developed and Marketed Products. Pharmaceutics, 2020, 12, 1031.	2.0	36
84	Prodrugs of PKC modulators show enhanced HIV latency reversal and an expanded therapeutic window. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10688-10698.	3.3	34
85	NIR lightâ€triggered nanomaterialsâ€based prodrug activation towards cancer therapy. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1643.	3.3	17
86	SG1002 and Catenated Divalent Organic Sulfur Compounds as Promising Hydrogen Sulfide Prodrugs. Antioxidants and Redox Signaling, 2020, 33, 1010-1045.	2.5	28
87	Soft drugs: design principles, success stories, and future perspectives. Expert Opinion on Drug Metabolism and Toxicology, 2020, 16, 645-650.	1.5	16
88	Enzymatic biosynthesis and biological evaluation of novel 17-AAG glucoside as potential anti-cancer agents. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127282.	1.0	3
89	Anti-MRSA agent discovery using Caenorhabditis elegans-based high-throughput screening. Journal of Microbiology, 2020, 58, 431-444.	1.3	10
90	Cross-linking cellular nucleic acids via a target-directing double click reagent. Methods in Enzymology, 2020, 641, 433-457.	0.4	0
91	Dually Enzyme- and Acid-Triggered Self-Immolative Ketal Glycoside Nanoparticles for Effective Cancer Prodrug Monotherapy. Nano Letters, 2020, 20, 5465-5472.	4.5	37

#	Article	IF	CITATIONS
92	Pectin as oral colon-specific nano- and microparticulate drug carriers. , 2020, , 257-286.		5
93	Long-acting approaches for delivery of antiretroviral drugs for prevention and treatment of HIV: a review of recent research. Expert Opinion on Drug Delivery, 2020, 17, 1227-1238.	2.4	30
94	Supramolecular prodrugs based on host–guest interactions. Chemical Society Reviews, 2020, 49, 2303-2315.	18.7	133
95	Recent strategies towards the surface modification of liposomes: an innovative approach for different clinical applications. 3 Biotech, 2020, 10, 163.	1.1	89
96	Copperâ€Enriched Prussian Blue Nanomedicine for In Situ Disulfiram Toxification and Photothermal Antitumor Amplification. Advanced Materials, 2020, 32, e2000542.	11.1	112
98	Computational Design of an Allosteric Antibody Switch by Deletion and Rescue of a Complex Structural Constellation. ACS Central Science, 2020, 6, 390-403.	5.3	7
99	Disulfide based prodrugs for cancer therapy. RSC Advances, 2020, 10, 24397-24409.	1.7	43
100	Phospholipid Cyclosporine Prodrugs Targeted at Inflammatory Bowel Disease (IBD) Treatment: Design, Synthesis, and in Vitro Validation. ChemMedChem, 2020, 15, 1639-1644.	1.6	5
101	In vitro immunobiological assays of methotrexate-stearic acid conjugate in human PBMCs. Immunobiology, 2020, 225, 151984.	0.8	3
102	Histone deacetylase inhibitor based prodrugs. European Journal of Medicinal Chemistry, 2020, 203, 112628.	2.6	24
103	Novel octapeptide-DTX prodrugs targeting MMP-7 as effective agents for the treatment of colorectal cancer with lower systemic toxicity. European Journal of Medicinal Chemistry, 2020, 193, 112194.	2.6	6
104	Diclofenac Prodrugs for Intra-articular Depot Injectables: InÂVitro Hydrolysis and Species Variation. Journal of Pharmaceutical Sciences, 2020, 109, 1529-1536.	1.6	2
105	Biocompatible Chemotherapy for Leukemia by Acid-Cleavable, PEGylated FTY720. Bioconjugate Chemistry, 2020, 31, 673-684.	1.8	5
106	Symbiotic prodrugs (SymProDs) dual targeting of NFkappaB and CDK. Chemical Biology and Drug Design, 2020, 96, 773-784.	1.5	10
107	A year-long extended release nanoformulated cabotegravir prodrug. Nature Materials, 2020, 19, 910-920.	13.3	66
108	Analytical Quality by Design as an Important Tool to Determine the Best Analytical Conditions for Isoniazid and Its Respective Succinylated Prodrug. Journal of AOAC INTERNATIONAL, 2021, 104, 239-247.	0.7	2
109	Zwitterionic comb-like lipid polymers encapsulating linalool for increasing the fragrance retention time. Chinese Chemical Letters, 2021, 32, 573-576.	4.8	7
110	A facile and universal method to achieve liposomal remote loading of non-ionizable drugs with outstanding safety profiles and therapeutic effect. Acta Pharmaceutica Sinica B, 2021, 11, 258-270.	5.7	16

#	Article	IF	CITATIONS
111	Molecularly Imprinted Polymerâ€Based Smart Prodrug Delivery System for Specific Targeting, Prolonged Retention, and Tumor Microenvironmentâ€Triggered Release. Angewandte Chemie - International Edition, 2021, 60, 2663-2667.	7.2	90
112	Molecularly Imprinted Polymerâ€Based Smart Prodrug Delivery System for Specific Targeting, Prolonged Retention, and Tumor Microenvironmentâ€Triggered Release. Angewandte Chemie, 2021, 133, 2695-2699.	1.6	13
113	Nanomedicine Approaches to Negotiate Local Biobarriers for Topical Drug Delivery. Advanced Therapeutics, 2021, 4, 2000160.	1.6	6
114	Separation and preparative purification of l †and d â€valine ester: Diastereomeric conjugates of atazanavir using a combination of 2â€propanol and acetonitrile in reversedâ€phase highâ€performance liquid chromatography. Separation Science Plus, 2021, 4, 16-23.	0.3	1
115	Quantitative self-assembly of photoactivatable small molecular prodrug cocktails for safe and potent cancer chemo-photodynamic therapy. Nano Today, 2021, 36, 101030.	6.2	52
116	Systematic Approach for Screening of Prodrugs: Evaluation Using Oseltamivir Analogues as Models. Journal of Pharmaceutical Sciences, 2021, 110, 925-934.	1.6	1
117	Recent developments in pharmaceutical salts: FDA approvals from 2015 to 2019. Drug Discovery Today, 2021, 26, 384-398.	3.2	55
118	Acyl and oligo(lactic acid) prodrugs for PEG-b-PLA and PEG-b-PCL nano-assemblies for injection. Journal of Controlled Release, 2021, 330, 1004-1015.	4.8	13
119	Strategies to expand peptide functionality through hybridisation with a small molecule component. RSC Chemical Biology, 2021, 2, 151-165.	2.0	10
120	Synthesis of Hydroxylated Biphenyl Derivatives Bearing an α,βâ€Unsaturated Ketone as a Lead Structure for the Development of Drug Candidates against Malignant Melanoma. ChemMedChem, 2021, 16, 1022-1033.	1.6	3
121	Theoretical Study to Predict the Ability to Use Different Organic Substituents as Carrier Linkages for Diclofenac. Asian Journal of Chemistry, 2021, 33, 2105-2118.	0.1	0
122	Nanoparticles beyond the blood-brain barrier for glioblastoma. , 2021, , 707-747.		0
123	Photoactivatable prodrug for simultaneous release of mertansine and CO along with a BODIPY derivative as a luminescent marker in mitochondria: a proof of concept for NIR image-guided cancer therapy. Chemical Science, 2021, 12, 2667-2673.	3.7	21
124	Photorelease of a metal-binding pharmacophore from a Ru(<scp>ii</scp>) polypyridine complex. Dalton Transactions, 2021, 50, 2757-2765.	1.6	10
125	Drug Metabolism Functionalization (Phase I) Reactions. , 2021, , 1-7.		0
126	Prodrug strategy for enhanced therapy of central nervous system disease. Chemical Communications, 2021, 57, 8842-8855.	2.2	13
128	Selfâ€Activatable Photoâ€Extracellular Vesicle for Synergistic Trimodal Anticancer Therapy. Advanced Materials, 2021, 33, e2005562.	11.1	100
129	The Integration of Reactive Oxygen Species Generation and Prodrug Activation for Cancer Therapy. BIO Integration, 2022, 3, .	0.9	3

#	Article	IF	CITATIONS
130	A STAT3 inhibitor ameliorates CNS autoimmunity by restoring Teff:Treg Balance. JCI Insight, 2021, 6, .	2.3	11
131	Balancing the stability and drug activation in adaptive nanoparticles potentiates chemotherapy in multidrug-resistant cancer. Theranostics, 2021, 11, 4137-4154.	4.6	9
132	Design of a PEGylated Antimicrobial Prodrug with Species-Specific Activation. Biomacromolecules, 2021, 22, 984-992.	2.6	5
133	Recent near-infrared light-activated nanomedicine toward precision cancer therapy. Journal of Materials Chemistry B, 2021, 9, 7076-7099.	2.9	21
134	Into the Fray! A Beginner's Guide to Medicinal Chemistry. ChemMedChem, 2021, 16, 1199-1225.	1.6	9
135	Design and Characterization of a Pyridone-Containing EZH2 Inhibitor Phosphate Prodrug. Journal of Medicinal Chemistry, 2021, 64, 1725-1732.	2.9	11
136	Learning Atomic Interactions through Solvation Free Energy Prediction Using Graph Neural Networks. Journal of Chemical Information and Modeling, 2021, 61, 689-698.	2.5	21
137	U.S. FDA Approved Drugs from 2015–June 2020: A Perspective. Journal of Medicinal Chemistry, 2021, 64, 2339-2381.	2.9	314
138	A prostate-specific membrane antigen (PSMA)-targeted prodrug with a favorable in vivo toxicity profile. Scientific Reports, 2021, 11, 7114.	1.6	20
139	Active Delivery of CRISPR System Using Targetable or Controllable Nanocarriers. Small, 2021, 17, e2005222.	5.2	12
140	Comparative Physical Study of Three Pharmaceutically Active Benzodiazepine Derivatives: Crystalline versus Amorphous State and Crystallization Tendency. Molecular Pharmaceutics, 2021, 18, 1819-1832.	2.3	11
141	Thiol–Thioester Exchange Reactions in Precursors Enable pH-Triggered Hydrogel Formation. Biomacromolecules, 2021, 22, 1875-1884.	2.6	11
142	Tunable Methacrylamides for Covalent Ligand Directed Release Chemistry. Journal of the American Chemical Society, 2021, 143, 4979-4992.	6.6	41
143	Update on Phytochemical and Biological Studies on Rocaglate Derivatives from Aglaia Species. Planta Medica, 2021, 87, 937-948.	0.7	4
144	Design of BET Inhibitor Bottlebrush Prodrugs with Superior Efficacy and Devoid of Systemic Toxicities. Journal of the American Chemical Society, 2021, 143, 4714-4724.	6.6	18
145	Expanding the Repertoire for "Large Small Molecules†Prodrug ABBV-167 Efficiently Converts to Venetoclax with Reduced Food Effect in Healthy Volunteers. Molecular Cancer Therapeutics, 2021, 20, 999-1008.	1.9	12
146	Novel Physics-Based Ensemble Modeling Approach That Utilizes 3D Molecular Conformation and Packing to Access Aqueous Thermodynamic Solubility: A Case Study of Orally Available Bromodomain and Extraterminal Domain Inhibitor Lead Optimization Series. Journal of Chemical Information and Modeling, 2021, 61, 1412-1426.	2.5	12
147	Degradable polymeric vehicles for postoperative pain management. Nature Communications, 2021, 12, 1367.	5.8	30

#	Article	IF	CITATIONS
148	Stability of Ketoprofen Methylester in Plasma of Different Species. Current Drug Metabolism, 2021, 22, 215-223.	0.7	2
149	Two-Step Synthesis of α-Aryl-α-diazoamides as Modular Bioreversible Labels. Organic Letters, 2021, 23, 3110-3114.	2.4	10
151	Synthesis of Salicylate and Salicylamide Alcohols for the Preparation of Phosphorodiamidates and Ifosfamide Prodrugs Oriental Journal of Chemistry, 2021, 37, 295-301.	0.1	2
152	Visualizing the Journey of Fenofibrate through the Rat Gastrointestinal Tract by Matrix-Assisted Laser Desorption/Ionization–Mass Spectrometry Imaging. Molecular Pharmaceutics, 2021, 18, 2189-2197.	2.3	3
153	Senolytic targets and new strategies for clearing senescent cells. Mechanisms of Ageing and Development, 2021, 195, 111468.	2.2	30
154	Core–Shell Pluronic-Organosilica Nanoparticles with Controlled Polarity and Oxygen Permeability. Langmuir, 2021, 37, 4802-4809.	1.6	1
155	Antimicrobial nanomedicine for ocular bacterial and fungal infection. Drug Delivery and Translational Research, 2021, 11, 1352-1375.	3.0	26
156	Gemcitabine Lipid Prodrugs: The Key Role of the Lipid Moiety on the Self-Assembly into Nanoparticles. Bioconjugate Chemistry, 2021, 32, 782-793.	1.8	9
157	Clip Chemistry: Diverse (Bio)(macro)molecular and Material Function through Breaking Covalent Bonds. Chemical Reviews, 2021, 121, 7059-7121.	23.0	75
158	X-ray screening identifies active site and allosteric inhibitors of SARS-CoV-2 main protease. Science, 2021, 372, 642-646.	6.0	240
161	Facile preparation of pH/redox dual-responsive biodegradable polyphosphazene prodrugs for effective cancer chemotherapy. Colloids and Surfaces B: Biointerfaces, 2021, 200, 111573.	2.5	18
162	Oral Drug Delivery: Conventional to Long Acting New-Age Designs. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 162, 23-42.	2.0	18
163	Bioorthogonal catalytic patch. Nature Nanotechnology, 2021, 16, 933-941.	15.6	130
164	Suppression of Breast Cancer by Small Molecules That Block the Prolactin Receptor. Cancers, 2021, 13, 2662.	1.7	11
165	An overview of ProTide technology and its implications to drug discovery. Expert Opinion on Drug Discovery, 2021, 16, 1149-1161.	2.5	22
166	Chemical evolution of cyclic dinucleotides: Perspective of the analogs and their preparation. Tetrahedron, 2021, 87, 132096.	1.0	10
167	Recent developments in predicting CYP-independent metabolism. Drug Metabolism Reviews, 2021, 53, 188-206.	1.5	5
168	Self-immolative Linkers in Prodrugs and Antibody Drug Conjugates in Cancer Treatment. Recent Patents on Anti-Cancer Drug Discovery, 2021, 16, 479-497.	0.8	7

#	ARTICLE	IF	CITATIONS
 169	In Vitro Kinetic Hydrolysis Study of Metronidazole Derivatives with Carvacrol and Eugenol Using Validated RP-HPLC Method. Current Pharmaceutical Analysis, 2021, 17, 738-747.	0.3	0
170	Enhancement of the brain delivery of methotrexate with administration of mid-chain ester prodrugs: In vitro and in vivo studies. International Journal of Pharmaceutics, 2021, 600, 120479.	2.6	17
171	Identification of pyrogallol as a warhead in design of covalent inhibitors for the SARS-CoV-2 3CL protease. Nature Communications, 2021, 12, 3623.	5.8	111
172	Development, Characterization and Pharmacological Investigation of Umbelliferone Conjugates of NSAIDs. Iraqi Journal of Pharmaceutical Sciences, 2021, 30, 240-248.	0.1	2
173	Novel potent bifunctional carboxylesterase inhibitors based on a polyfluoroalkyl-2-imino-1,3-dione scaffold. European Journal of Medicinal Chemistry, 2021, 218, 113385.	2.6	13
174	A Cationic Micelle as In Vivo Catalyst for Tumor‣ocalized Cleavage Chemistry. Angewandte Chemie, 2021, 133, 19903-19911.	1.6	2
175	Antiviral Drug Delivery System for Enhanced Bioactivity, Better Metabolism and Pharmacokinetic Characteristics. International Journal of Nanomedicine, 2021, Volume 16, 4959-4984.	3.3	26
176	A Cationic Micelle as In Vivo Catalyst for Tumor‣ocalized Cleavage Chemistry. Angewandte Chemie - International Edition, 2021, 60, 19750-19758.	7.2	15
177	Dually targeted bioinspired nanovesicle delays advanced prostate cancer tumour growth in vivo. Acta Biomaterialia, 2021, 134, 559-575.	4.1	7
178	Scalable Asymmetric Syntheses of Foslevodopa and Foscarbidopa Drug Substances for the Treatment of Parkinson's Disease. Journal of Organic Chemistry, 2022, 87, 1986-1995.	1.7	6
179	Targeting Small GTPases and Their Prenylation in Diabetes Mellitus. Journal of Medicinal Chemistry, 2021, 64, 9677-9710.	2.9	23
180	Nanoparticulation of Prodrug into Medicines for Cancer Therapy. Advanced Science, 2021, 8, e2101454.	5.6	62
181	Applications of capillary action in drug delivery. IScience, 2021, 24, 102810.	1.9	4
182	Click, release, and fluoresce: In-vivo generation of CO with concomitant synthesis of a fluorescent reporter. Bioorganic and Medicinal Chemistry, 2021, 44, 116297.	1.4	2
183	Modular Lipid Nanoparticle Platform Technology for siRNA and Lipophilic Prodrug Delivery. Small, 2021, 17, e2103025.	5.2	29
184	Lipophilic Conjugates of Drugs: A Tool to Improve Drug Pharmacokinetic and Therapeutic Profiles. Pharmaceutical Research, 2021, 38, 1497-1518.	1.7	14
185	Recent advances in prodrug-based nanoparticle therapeutics. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 165, 219-243.	2.0	41
186	Evaluating parameters affecting drug fate at the intramuscular injection site. Journal of Controlled Release, 2021, 336, 322-335.	4.8	7

#	Article	IF	CITATIONS
187	Recent trends in bioresponsive linker technologies of Prodrug-Based Self-Assembling nanomaterials. Biomaterials, 2021, 275, 120955.	5.7	29
188	A removable bio-orthogonal catalytic patch: A local "landmine― Matter, 2021, 4, 2601-2602.	5.0	2
189	Why Remdesivir Failed: Preclinical Assumptions Overestimate the Clinical Efficacy of Remdesivir for COVID-19 and Ebola. Antimicrobial Agents and Chemotherapy, 2021, 65, e0111721.	1.4	22
190	Modular ketal-linked prodrugs and biomaterials enabled by organocatalytic transisopropenylation of alcohols. Nature Communications, 2021, 12, 5532.	5.8	15
191	Mutual Prodrugs of 5â€Fluorouracil: From a Classic Chemotherapeutic Agent to Novel Potential Anticancer Drugs. ChemMedChem, 2021, 16, 3496-3512.	1.6	26
192	Preparation of novel cinnamaldehyde derivative–BSA nanoparticles with high stability, good cell penetrating ability, and promising anticancer activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 624, 126765.	2.3	13
193	Xâ€rays Actuate Anticancer Drugs: Opening New Vistas in Prodrug Therapy. ChemBioChem, 2021, 22, 2998-3000.	1.3	2
194	In situ activation of therapeutics through bioorthogonal catalysis. Advanced Drug Delivery Reviews, 2021, 176, 113893.	6.6	58
195	Direct, Lateâ€Stage Mono―N â€arylation of Pentamidine: Method Development, Mechanistic Insight, and Expedient Access to Novel Antiparastitics against Diamidineâ€Resistant Parasites. ChemMedChem, 2021, 16, 3396-3401.	1.6	2
196	EGFR-targeted prodrug activation using bioorthogonal alkene-azide click-and-release chemistry. Bioorganic and Medicinal Chemistry, 2021, 46, 116361.	1.4	4
197	Engineering Paclitaxel Prodrug Nanoparticles via Redox-Activatable Linkage and Effective Carriers for Enhanced Chemotherapy. ACS Applied Materials & amp; Interfaces, 2021, 13, 46291-46302.	4.0	20
198	Regulation of autoreactive CD4 T cells by FoxO1 signaling in CNS autoimmunity. Journal of Neuroimmunology, 2021, 359, 577675.	1.1	3
199	Microfluidic assembly of small-molecule prodrug cocktail nanoparticles with high reproducibility for synergistic combination of cancer therapy. International Journal of Pharmaceutics, 2021, 608, 121088.	2.6	6
200	Multi-functional polymeric micelles for chemotherapy-based combined cancer therapy. Journal of Materials Chemistry B, 2021, 9, 8718-8738.	2.9	14
201	Site of Metabolism Predictions. , 2021, , 1-9.		0
202	Molecular photoswitches in aqueous environments. Chemical Society Reviews, 2021, 50, 12377-12449.	18.7	170
203	Design Principles and Development of Prodrugs for Multiply Active Antibacterials. , 2021, , 121-158.		1
204	A trifunctional self-immolative spacer enables drug release with two non-sequential enzymatic cleavages. Chemical Communications, 2021, 57, 7778-7781.	2.2	7

#	Article	IF	CITATIONS
205	Prodrugs. , 2021, , 1-6.		0
207	A General Strategy for Macrotheranostic Prodrug Activation: Synergy between the Acidic Tumor Microenvironment and Bioorthogonal Chemistry. Angewandte Chemie, 2020, 132, 7235-7239.	1.6	21
208	A General Strategy for Macrotheranostic Prodrug Activation: Synergy between the Acidic Tumor Microenvironment and Bioorthogonal Chemistry. Angewandte Chemie - International Edition, 2020, 59, 7168-7172.	7.2	89
209	Recent advances in understanding prodrug transport through the SLC15 family of proton-coupled transporters. Biochemical Society Transactions, 2020, 48, 337-346.	1.6	26
210	Quercetin-Amino Acid Conjugates are Promising Anti-Cancer Agents in Drug Discovery Projects. Mini-Reviews in Medicinal Chemistry, 2020, 20, 107-122.	1.1	10
211	Carbamate group as structural motif in drugs: a review of carbamate derivatives used as therapeutic agents. Arhiv Za Higijenu Rada I Toksikologiju, 2020, 71, 285-299.	0.4	22
212	Computational Simulations to Guide Enzyme-Mediated Prodrug Activation. International Journal of Molecular Sciences, 2020, 21, 3621.	1.8	13
213	Caffeic acid phenethyl ester (CAPE): cornerstone pharmacological studies and drug delivery systems. Pharmacia, 2019, 66, 223-231.	0.4	7
214	Prediction the ability of using vitamins and amino acids as carrier's linkage for diclofenac drug: A theoretical and comparative approach. Results in Chemistry, 2021, 3, 100212.	0.9	0
215	Therapeutic target database update 2022: facilitating drug discovery with enriched comparative data of targeted agents. Nucleic Acids Research, 2022, 50, D1398-D1407.	6.5	310
216	Non-Phosphorus Lipids As New Antitumor Drug Prototypes. Russian Journal of Bioorganic Chemistry, 2021, 47, 965-979.	0.3	2
217	Cytotoxic and Antitumoral Activity of N-(9H-purin-6-yl) Benzamide Derivatives and Related Water-soluble Prodrugs. Current Molecular Pharmacology, 2022, 15, 883-894.	0.7	2
220	Polyacrylamide grafted Eucalyptus camaldulensis (EC-g-PAM) gum as an efficient binding agent in drug formulations. Materials Research Express, 2020, 7, 045307.	0.8	0
221	Masked amino trimethyl lock (H2Nâ€TML) systems: new molecular entities for the development of turnâ€on fluorophores and their application in hydrogen sulfide (H2S) imaging in human cells. Chemistry - A European Journal, 2021, , .	1.7	3
222	Triglyceride-Mimetic Structure-Gated Prodrug Nanoparticles for Smart Cancer Therapy. Journal of Medicinal Chemistry, 2021, 64, 15936-15948.	2.9	12
223	Prodrug Design to Enhance Bioavailability and Systemic Delivery. Healthy Ageing and Longevity, 2020, , 123-154.	0.2	0
224	Investigating thiouracil adsorption by an iron-doped carbon particle: Analyzing structural, electronic, and QTAIM features. Journal of Molecular Structure, 2022, 1250, 131885.	1.8	1
225	Can the Union of Prodrug Therapy and Nanomedicine Lead to Better Cancer Management?. Advanced NanoBiomed Research, 2022, 2, 2100074.	1.7	3

#	Article	IF	CITATIONS
226	Synthesis and Evaluation of Dapagliflozin Ester Prodrugs with Improved Hygroscopicity and Thermal Stability. Letters in Drug Design and Discovery, 2020, 17, 1409-1421.	0.4	0
227	Selection of QPX7831, an Orally Bioavailable Prodrug of Boronic Acid β-Lactamase Inhibitor QPX7728. Journal of Medicinal Chemistry, 2021, 64, 17523-17529.	2.9	10
228	Branched alkyl of phenyl 4-(2-oxo-3-alkylimidazolidin-1-yl)benzenesulfonates as unique cytochrome P450 1A1-activated antimitotic prodrugs: Biological evaluation and mechanism of bioactivation. European Journal of Medicinal Chemistry, 2022, 229, 114003.	2.6	3
229	Exploiting the Metabolism of the Gut Microbiome as a Vehicle for Targeted Drug Delivery to the Colon. Pharmaceuticals, 2021, 14, 1211.	1.7	9
230	Flipping the Switch: Innovations in Inducible Probes for Protein Profiling. ACS Chemical Biology, 2021, 16, 2719-2730.	1.6	6
231	Prodrugs. , 2021, , 1257-1263.		0
232	Smart design approaches for orally administered lipophilic prodrugs to promote lymphatic transport. Journal of Controlled Release, 2022, 341, 676-701.	4.8	16
233	Route of intracellular uptake and cytotoxicity of sesamol, sesamin, and sesamolin in human melanoma SK-MEL-2 cells. Biomedicine and Pharmacotherapy, 2022, 146, 112528.	2.5	7
234	Combination of photothermal, prodrug and tumor cell camouflage technologies for triple-negative breast cancer treatment. Materials Today Advances, 2022, 13, 100199.	2.5	12
235	Strategies to Overcome Biological Barriers Associated with Pulmonary Drug Delivery. Pharmaceutics, 2022, 14, 302.	2.0	12
236	ROS activated prodrug for ALDH overexpressed cancer stem cells. Chemical Communications, 2021, 58, 72-75.	2.2	6
237	Dimensionless parameter predicts bacterial prodrug success. Molecular Systems Biology, 2022, 18, e10495.	3.2	2
239	Engineering of small-molecule lipidic prodrugs as novel nanomedicines for enhanced drug delivery. Journal of Nanobiotechnology, 2022, 20, 49.	4.2	25
240	Synthesis of Ester-Substituted Indolo[2,1- <i>a</i>]isoquinolines via Photocatalyzed Alkoxycarbonylation/Cyclization Reactions. Organic Letters, 2022, 24, 642-647.	2.4	36
241	NIR-II photothermal therapy for effective tumor eradication enhanced by heterogeneous nanorods with dual catalytic activities. Nano Research, 2022, 15, 4310-4319.	5.8	10
242	Metal-free bioorthogonal click chemistry in cancer theranostics. Chemical Society Reviews, 2022, 51, 1336-1376.	18.7	76
243	Advances in prodrug design for Alzheimer's disease: the state of the art. Expert Opinion on Drug Discovery, 2022, 17, 325-341.	2.5	2
244	Disruption of Crystal Packing in Thieno[2,3-b]pyridines Improves Anti-Proliferative Activity. Molecules, 2022, 27, 836.	1.7	1

#	Article	IF	CITATIONS
245	Chloromethyl Glycosides as Versatile Synthons to Prepare Glycosyloxymethylâ€Prodrugs. Chemistry - A European Journal, 2022, 28, .	1.7	5
246	Purification and mass spectrometry study of Maillard reaction impurities in five acyclic nucleoside antiviral drugs. Journal of Pharmaceutical and Biomedical Analysis, 2022, 212, 114637.	1.4	1
247	Studies on π Interactions in Liquid-Phase Separations. Chromatography, 2022, 43, 15-20.	0.8	2
248	Succinylated isoniazid potential prodrug: Design of Experiments (DoE) for synthesis optimization and computational study of the reaction mechanism by DFT calculations. Journal of Molecular Structure, 2022, 1254, 132323.	1.8	1
249	DNAâ€Damageâ€Responseâ€Targeting Mitochondriaâ€Activated Multifunctional Prodrug Strategy for Selfâ€Defensive Tumor Therapy. Angewandte Chemie - International Edition, 2022, 61, .	7.2	30
250	DNAâ€Damageâ€Responseâ€Targeting Mitochondriaâ€Activated Multifunctional Prodrug Strategy for Selfâ€Defensive Tumor Therapy. Angewandte Chemie, 2022, 134, .	1.6	8
251	Prodrugs of pyrophosphates and bisphosphonates: disguising phosphorus oxyanions. RSC Medicinal Chemistry, 2022, 13, 375-391.	1.7	11
252	Stimulus-responsive self-assembled prodrugs in cancer therapy. Chemical Science, 2022, 13, 4239-4269.	3.7	48
253	Contemporary Medicinal Chemistry Strategies for the Discovery and Development of Novel HIV-1 Non-nucleoside Reverse Transcriptase Inhibitors. Journal of Medicinal Chemistry, 2022, 65, 3729-3757.	2.9	33
254	Prodrug Therapies for Infectious and Neurodegenerative Diseases. Pharmaceutics, 2022, 14, 518.	2.0	3
255	Prodrug-Based Targeting Approach for Inflammatory Bowel Diseases Therapy: Mechanistic Study of Phospholipid-Linker-Cyclosporine PLA2-Mediated Activation. International Journal of Molecular Sciences, 2022, 23, 2673.	1.8	5
256	Influence of Linkers within Stimuli-Responsive Prodrugs on Cancer Therapy: A Case of Five Doxorubicin Dimer-Based Nanoparticles. Chemistry of Materials, 2022, 34, 2085-2097.	3.2	19
257	Simulation Models for Prediction of Bioavailability of Medicinal Drugs—the Interface Between Experiment and Computation. AAPS PharmSciTech, 2022, 23, 86.	1.5	12
258	Recent advances in the translation of drug metabolism and pharmacokinetics science for drug discovery and development. Acta Pharmaceutica Sinica B, 2022, 12, 2751-2777.	5.7	27
259	Pharmacoproteomics of Brain Barrier Transporters and Substrate Design for the Brain Targeted Drug Delivery. Pharmaceutical Research, 2022, 39, 1363-1392.	1.7	19
260	Physicochemical investigation of a novel curcumin diethyl γ-aminobutyrate, a carbamate ester prodrug of curcumin with enhanced anti-neuroinflammatory activity. PLoS ONE, 2022, 17, e0265689.	1.1	8
261	Bottom-up physiologically based pharmacokinetic modelling for predicting the human pharmacokinetic profiles of the ester prodrug MGS0274 and its active metabolite MGS0008, a metabotropic glutamate 2/3 receptor agonist. Xenobiotica, 2022, 52, 119-128.	0.5	1
262	Synthesis of benzisothiazoles by a three-component reaction using elemental sulfur and ammonium as heteroatom components under transition metal-free conditions. Green Synthesis and Catalysis, 2022, 3, 168-174.	3.7	8

#	Article	IF	CITATIONS
263	Discovery of a Colon-Targeted Azo Prodrug of Tofacitinib through the Establishment of Colon-Specific Delivery Systems Constructed by 5-ASA–PABA–MAC and 5-ASA–PABA–Diamine for the Treatment of Ulcerative Colitis. Journal of Medicinal Chemistry, 2022, 65, 4926-4948.	2.9	6
264	PLA2-Triggered Activation of Cyclosporine-Phospholipid Prodrug as a Drug Targeting Approach in Inflammatory Bowel Disease Therapy. Pharmaceutics, 2022, 14, 675.	2.0	5
265	Isolation of Natural Prodrug-Like Metabolite by Simulating Human Prodrug Activation in Filamentous Fungus. Chemical and Pharmaceutical Bulletin, 2022, 70, 304-308.	0.6	0
267	Tumor-activated carrier-free prodrug nanoparticles for targeted cancer Immunotherapy: Preclinical evidence for safe and effective drug delivery. Advanced Drug Delivery Reviews, 2022, 183, 114177.	6.6	67
268	Bio-enabling strategies to mitigate the pharmaceutical food effect: A mini review. International Journal of Pharmaceutics, 2022, 619, 121695.	2.6	4
269	Prodrug nanoassemblies bridged by Mono-/Di-/Tri-sulfide bonds: Exploration is for going further. Nano Today, 2022, 44, 101480.	6.2	38
270	Intracellular Enzyme-Responsive Profluorophore and Prodrug Nanoparticles for Tumor-Specific Imaging and Precise Chemotherapy. ACS Applied Materials & Interfaces, 2021, 13, 59708-59719.	4.0	13
271	Poly(disulfide)s: From Synthesis to Drug Delivery. Biomacromolecules, 2022, 23, 1-19.	2.6	40
272	Distinct Hybrid Hydrates of Paritaprevir: Combined Experimental and Computational Assessment of their Hydration–Dehydration Behavior and Implications for Regulatory Controls. Crystal Growth and Design, 2022, 22, 726-737.	1.4	9
273	Broadâ€spectrum prodrugs with antiâ€5ARSâ€CoVâ€2 activities: Strategies, benefits, and challenges. Journal of Medical Virology, 2022, 94, 1373-1390.	2.5	35
274	Supramolecular nanomedicines through rational design of self-assembling prodrugs. Trends in Pharmacological Sciences, 2022, 43, 510-521.	4.0	16
275	Emerging Prodrug-Engineered nanomedicines for synergistic Chemo-Phototherapy. Chemical Engineering Journal, 2022, 442, 136383.	6.6	19
276	Recent Advances in Senotherapeutics Delivery. Tissue Engineering - Part B: Reviews, 2022, 28, 1223-1234.	2.5	1
277	Sequential Nucleophilic Substitution of Phosphorus Trichloride with Alcohols in a Continuousâ€Flow Reactor and Consideration of a Mechanism for Reduced Overâ€reaction through the Addition of Imidazole. Chemistry - A European Journal, 2022, 28, .	1.7	5
278	A Lysosome-Targeting Self-Condensation Prodrug-Nanoplatform System for Addressing Drug Resistance of Cancer. Nano Letters, 2022, 22, 3983-3992.	4.5	14
279	From Fluorescent Probes to the Theranostics Platform. Chinese Journal of Chemistry, 2022, 40, 1964-1974.	2.6	12
280	Approaches and materials for endocytosis-independent intracellular delivery of proteins. Biomaterials, 2022, 286, 121567.	5.7	19
281	Radiotherapy Reduces <i>N</i> -Oxides for Prodrug Activation in Tumors. Journal of the American Chemical Society, 2022, 144, 9458-9464.	6.6	29

	Ст	CITATION REPORT	
#	Article	IF	CITATIONS
282	A ROS-Responsive Simvastatin Nano-Prodrug and its Fibronectin-Targeted Co-Delivery System for Atherosclerosis Treatment. ACS Applied Materials & Interfaces, 2022, 14, 25080-25092.	4.0	11
283	Biomimetic Exosomes: A New Generation of Drug Delivery System. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	2.0	14
284	A dual-pH sensitive drug release system for combinatorial delivery of 5‑fluorouracil and leucovorin calcium in colon cancer therapy. Inorganic Chemistry Communication, 2022, 141, 109616.	1.8	2
285	Indocyanine green potentiated paclitaxel nanoprodrugs for imaging and chemotherapy. Exploration, 2022, 2, .	5.4	28
286	Drug Metabolism Functionalization (Phase I) Reactions. , 2022, , 387-394.		0
287	Ultrasound-directed enzyme-prodrug therapy (UDEPT) using self-immolative doxorubicin derivatives. Theranostics, 2022, 12, 4791-4801.	4.6	3
288	Site of Metabolism Predictions. , 2022, , 1073-1081.		0
289	Self-boosting stimulus activation of a polyprodrug with cascade amplification for enhanced antitumor efficacy. Biomaterials Science, 2022, 10, 4228-4234.	2.6	1
290	Ruthenium complexes for photoactivated dual activity: Drug delivery and singlet oxygen generation. Advances in Inorganic Chemistry, 2022, , .	0.4	1
291	Increased/Targeted Brain (Pro)Drug Delivery via Utilization of Solute Carriers (SLCs). Pharmaceutics, 2022, 14, 1234.	2.0	3
292	Current Developments of N-Heterocyclic Carbene Au(I)/Au(III) Complexes toward Cancer Treatment. Biomedicines, 2022, 10, 1417.	1.4	11
293	Cathepsin B-responsive prodrugs for cancer-targeted therapy: Recent advances and progress for clinical translation. Nano Research, 2022, 15, 7247-7266.	5.8	8
294	Nitroreductase-Induced Bioorthogonal Ligation for Prodrug Activation: A Traceless Strategy for Cancer-Specific Imaging and Therapy. SSRN Electronic Journal, 0, , .	0.4	0
295	Degradable polyprodrugs: design and therapeutic efficiency. Chemical Society Reviews, 2022, 51, 6652-6703.	18.7	28
296	Innovation in Pharmaceutical Assistance. Brazilian Journal of Pharmaceutical Sciences, 0, 58, .	1.2	0
297	PAMAM Dendrimers: A Review of Methodologies Employed in Biopharmaceutical Classification. Journal of Pharmaceutical Sciences, 2022, 111, 2662-2673.	1.6	7
298	Discovery of Inhibitors of DNA Methyltransferase 2, an Epitranscriptomic Modulator and Potential Target for Cancer Treatment. Journal of Medicinal Chemistry, 2022, 65, 9750-9788.	2.9	7
299	Thermal release of quinoliniums and simple alkenes from their photocycloadducts by a retro-Diels–Alder reaction. Tetrahedron Letters, 2022, 104, 154011.	0.7	3

#	Article	IF	Citations
300	Structural Modification in Anesthetic Drug Development for Prodrugs and Soft Drugs. Frontiers in Pharmacology, 0, 13, .	1.6	3
301	Luteolin Phosphate Derivatives Generated by Cultivating <i>Bacillus subtilis</i> var. Natto BCRC 80517 with Luteolin. Journal of Agricultural and Food Chemistry, 2022, 70, 8738-8745.	2.4	3

302 Design and Measurement of Drug Tissue Concentration Asymmetry and Tissue Exposure-Effect (Tissue) Tj ETQq0 0.0 rgBT /Oyerlock 10

303	A new dawn beyond lysine ubiquitination. Nature Chemical Biology, 2022, 18, 802-811.	3.9	31
304	Mitochondrial targeting theranostic nanomedicine and molecular biomarkers for efficient cancer diagnosis and therapy. Biomedicine and Pharmacotherapy, 2022, 153, 113451.	2.5	13
305	Development of Sesamol Carbamate-L-Phenylalanine Prodrug Targeting L-Type Amino Acid Transporter1 (LAT1) as a Potential Antiproliferative Agent against Melanoma. International Journal of Molecular Sciences, 2022, 23, 8446.	1.8	7
306	HOCl-Activated Reactive Organic Selenium Delivery Platform for Alleviation of Inflammation. Bioconjugate Chemistry, 2022, 33, 1602-1608.	1.8	3
307	Improving Drug Delivery While Tailoring Prodrug Activation to Modulate <i>C</i> _{max} and <i>C</i> _{min} by Optimization of (Carbonyl)oxyalkyl Linker-Based Prodrugs of Atazanavir. Journal of Medicinal Chemistry, 2022, 65, 11150-11176.	2.9	1
308	Discovery of Orally Bioavailable and Brain-Penetrable Prodrugs of the Potent nSMase2 Inhibitor DPTIP. Journal of Medicinal Chemistry, 2022, 65, 11111-11125.	2.9	7
309	A Carbonâ€Carbon Bond Cleavageâ€Based Prodrug Activation Strategy Applied to Î²â€Łapachone for Cancerâ€ S pecific Targeting. Angewandte Chemie - International Edition, 2022, 61, .	7.2	6
310	Discovery of a novel phosphotransferase from Bacillus subtilis that phosphorylates a broad spectrum of flavonoids. Food Chemistry, 2023, 400, 134001.	4.2	5
311	A Carbonâ€Carbon Bond Cleavageâ€Based Prodrug Activation Strategy Applied to Î²â€Łapachone for Cancerâ€5pecific Targeting. Angewandte Chemie, 2022, 134, .	1.6	3
312	A Cephalosporin-Tripodalamine Conjugate Inhibits Metallo-β-Lactamase with High Efficacy and Low Toxicity. Antimicrobial Agents and Chemotherapy, 2022, 66, .	1.4	2
313	Nitroreductase-induced bioorthogonal ligation for prodrug activation: A traceless strategy for cancer-specific imaging and therapy. Bioorganic Chemistry, 2022, 129, 106167.	2.0	0
314	Arylboronic Acids and Ester-Based Prodrugs Targeting Oxidative Stress in Cancer. , 2022, , 863-884.		0
315	Rutin bioconjugates as potential nutraceutical prodrugs: An in vitro and in ovo toxicological screening. Frontiers in Pharmacology, 0, 13, .	1.6	7
316	Benzoic Acid Derivatives as Prodrugs for the Treatment of Tuberculosis. Pharmaceuticals, 2022, 15, 1118.	1.7	2
317	Protection of a Gold Catalyst by a Supramolecular Cage Improves Bioorthogonality. ChemCatChem, 2022, 14, .	1.8	5

#	Article	IF	Citations
318	An All-in-One Bioorthogonal System for Precise Cancer Therapy. Chemistry of Materials, 2022, 34, 8544-8550.	3.2	7
319	Emerging Strategies in Stimuli-Responsive Prodrug Nanosystems for Cancer Therapy. ACS Nano, 2022, 16, 13513-13553.	7.3	42
320	Radiotherapy-triggered prodrug activation: A new era in precise chemotherapy. Med, 2022, 3, 600-602.	2.2	4
321	Ocular barriers as a double-edged sword: preventing and facilitating drug delivery to the retina. Drug Delivery and Translational Research, 2023, 13, 547-567.	3.0	6
322	Mechanochemical Electrophilic Mono- or Disulfur Transfer: Construction of P(O)–S or P(O)–S–S Bonds. Organic Letters, 2022, 24, 7222-7226.	2.4	6
323	Microcrystals of Ketal-Linked Paliperidone Prodrugs for Long-Acting Antipsychotics. Molecular Pharmaceutics, 2022, 19, 3846-3857.	2.3	4
324	In-situ vaccination using dual responsive organelle targeted nanoreactors. Biomaterials, 2022, 290, 121843.	5.7	7
325	Novel <scp>NRF2</scp> â€activated cancer treatments utilizing synthetic lethality. IUBMB Life, 2022, 74, 1209-1231.	1.5	7
326	Lectin-Targeted Prodrugs Activated by <i>Pseudomonas aeruginosa</i> for Self-Destructive Antibiotic Release. Journal of Medicinal Chemistry, 2022, 65, 13988-14014.	2.9	9
327	S-acylthioalkyl ester (SATE)-based prodrugs of deoxyribose cyclic dinucleotides (dCDNs) as the STING agonist for antitumor immunotherapy. European Journal of Medicinal Chemistry, 2022, 243, 114796.	2.6	11
328	Therapeutic Drug Monitoring and Toxicology: Relevance of Measuring Metabolites. , 2022, , 197-232.		0
329	Co-Delivery of Paclitaxel Prodrug, Gemcitabine and Porphine by Micelles for Pancreatic Cancer Treatment via Chemo-Photodynamic Combination Therapy. Pharmaceutics, 2022, 14, 2280.	2.0	4
330	Aminopeptidase B can bioconvert L-type amino acid transporter 1 (LAT1)-utilizing amide prodrugs in the brain. Frontiers in Pharmacology, 0, 13, .	1.6	0
331	Small Molecule Inhibitors of Lymphocyte Perforin as Focused Immunosuppressants for Infection and Autoimmunity. Journal of Medicinal Chemistry, 2022, 65, 14305-14325.	2.9	2
332	Long-acting HIV pre-exposure prophylaxis (PrEP) approaches: recent advances, emerging technologies, and development challenges. Expert Opinion on Drug Delivery, 2022, 19, 1365-1380.	2.4	13
333	The influence of molecular design on structure–property relationships of a supramolecular polymer prodrug. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	8
334	Long-acting acid-sensitive ketal-linked dexamethasone microcrystals for treating experimental autoimmune uveitis. APL Bioengineering, 2022, 6, .	3.3	5
335	Therapeutic in vivo synthetic chemistry using an artificial metalloenzyme with glycosylated human serum albumin. Advances in Carbohydrate Chemistry and Biochemistry, 2022, , .	0.4	1

#	Article	IF	CITATIONS
336	Dissolution Improvement of Progesterone and Testosterone via Impregnation on Mesoporous Silica Using Supercritical Carbon Dioxide. AAPS PharmSciTech, 2022, 23, .	1.5	1
337	Discovery of DRP-104, a tumor-targeted metabolic inhibitor prodrug. Science Advances, 2022, 8, .	4.7	35
338	Two-Stage SN38 Release from a Core–Shell Nanoparticle Enhances Tumor Deposition and Antitumor Efficacy for Synergistic Combination with Immune Checkpoint Blockade. ACS Nano, 2022, 16, 21417-21430.	7.3	22
340	Disease-driven engineering of peptide-targeted DM1 loaded liposomal nanoparticles for enhanced efficacy in treating multiple myeloma by exploring DM1 prodrug chemistry. Biomaterials, 2023, 292, 121913.	5.7	4
341	Tetrazine bioorthogonal chemistry makes nanotechnology a powerful toolbox for biological applications. Nanoscale, 2023, 15, 461-469.	2.8	8
342	Dual-prodrug cascade activation for chemo/chemodynamic mutually beneficial combination cancer therapy. Biomaterials Science, 0, , .	2.6	3
343	Discovery of two biotin-PEG4‑diarylidenyl piperidone prodrugs as potent antitumor agents with good efficacy, limited toxicity, and low resistance. Bioorganic Chemistry, 2023, 131, 106323.	2.0	0
345	Anticancer Effect of Chlorambucil Enhanced by Chiral Phthalidyl Promoiety. Chemistry and Biodiversity, 2023, 20, .	1.0	0
346	Application of Nanotechnology in Thrombus Therapy. Advanced Healthcare Materials, 2023, 12, .	3.9	11
347	Comparative Pharmacology of a Bis-Pivaloyloxymethyl Phosphonate Prodrug Inhibitor of Enolase after Oral and Parenteral Administration. ACS Pharmacology and Translational Science, 2023, 6, 245-252.	2.5	1
348	Adenosine-Dependent Activation Mechanism of Prodrugs Targeting an Aminoacyl-tRNA Synthetase. Journal of the American Chemical Society, 2023, 145, 800-810.	6.6	3
349	The design of small-molecule prodrugs and activatable phototherapeutics for cancer therapy. Chemical Society Reviews, 2023, 52, 879-920.	18.7	64
350	Microphysiological Drugâ€īesting Platform for Identifying Responses to Prodrug Treatment in Primary Leukemia. Advanced Healthcare Materials, 2023, 12, .	3.9	2
351	FDA/M-CERSI Co-Processed API Workshop Proceedings. Journal of Pharmaceutical Sciences, 2023, 112, 2069-2078.	1.6	1
352	Structure-activity of chlormethine fluorescent prodrugs: Witnessing the development of trackable drug delivery. Coordination Chemistry Reviews, 2023, 480, 214999.	9.5	12
353	Building bioorthogonal click-release capable artificial receptors on cancer cell surface for imaging, drug targeting and delivery. Acta Pharmaceutica Sinica B, 2023, 13, 2736-2746.	5.7	8
354	Chiral metallic anticancer drugs: A brief-review. European Journal of Chemistry, 2022, 13, 483-490.	0.3	1
356	Qualification of Human Liver Microsomes for Antibacterial Activity Screening of Drug Metabolites. Applied Microbiology, 2023, 3, 104-118.	0.7	1

#	Apticie	IF	CITATIONS
" 357	Solubility Enhancement and Inhalation Delivery of Cyclodextrin-Based Inclusion Complex of Delamanid for Pulmonary Tuberculosis Treatment. AAPS PharmSciTech, 2023, 24, .	1.5	5
358	Sulfamate Acetamides as Self-Immolative Electrophiles for Covalent Ligand-Directed Release Chemistry. Journal of the American Chemical Society, 2023, 145, 3346-3360.	6.6	8
359	Synthesis, cytotoxicity, and pharmacokinetic evaluations of niclosamide analogs for anti-SARS-CoV-2. European Journal of Medicinal Chemistry, 2023, 253, 115320.	2.6	2
360	Bioorthogonal nanozymes for breast cancer imaging and therapy. Journal of Controlled Release, 2023, 357, 31-39.	4.8	9
361	Siderophores: Chemical tools for precise antibiotic delivery. Bioorganic and Medicinal Chemistry Letters, 2023, 87, 129282.	1.0	8
362	Target- and prodrug-based design for fungal diseases and cancer-associated fungal infections. Advanced Drug Delivery Reviews, 2023, 197, 114819.	6.6	2
363	Rational design of tumor-selective prodrug nanoassemblies: Greatly improving the in vivo fate and tolerability of high-toxic cabazitaxel. Chemical Engineering Journal, 2023, 458, 141510.	6.6	4
364	A comprehensive review of advanced drug delivery systems for the treatment of rheumatoid arthritis. International Journal of Pharmaceutics, 2023, 635, 122698.	2.6	6
365	Protocol to study inÂvitro drug metabolism and identify montelukast metabolites from purified enzymes and primary cell cultures by mass spectrometry. STAR Protocols, 2023, 4, 102086.	0.5	1
366	Discovery of Prodrug of MRTX1133 as an Oral Therapy for Cancers with KRAS ^{G12D} Mutation. ACS Omega, 2023, 8, 7211-7221.	1.6	3
368	Engineering cytokine therapeutics. , 2023, 1, 286-303.		29
369	Learning from human metabolism for nanomedicine: a convertible bismuth-agent for tumour-selective theranostics. Materials Horizons, 0, , .	6.4	0
370	Photocaged Histone Deacetylase Inhibitors as Prodrugs in Targeted Cancer Therapy. Pharmaceuticals, 2023, 16, 356.	1.7	2
371	Potential Anti-SARS-CoV-2 Prodrugs Activated by Phosphorylation and Their Role in the Aged Population. Molecules, 2023, 28, 2332.	1.7	6
372	Self-assembled nanoformulations of paclitaxel for enhanced cancer theranostics. Acta Pharmaceutica Sinica B, 2023, 13, 3252-3276.	5.7	7
373	Design, Synthesis, and Bioevaluation of Dexmedetomidine Prodrug. ACS Medicinal Chemistry Letters, 2023, 14, 405-410.	1.3	0
374	Visible-Light-Induced 1,7-Enyne Dicyclization: Synthesis of Ester-Substituted Benzo[<i>j</i>]phenanthridines. Organic Letters, 2023, 25, 1978-1983.	2.4	11
375	HuR modulation counteracts lipopolysaccharide response in murine macrophages. DMM Disease Models and Mechanisms, 2023, 16, .	1.2	1

#	Article	IF	CITATIONS
376	SULT1A1-dependent sulfonation of alkylators is a lineage-dependent vulnerability of liver cancers. Nature Cancer, 2023, 4, 365-381.	5.7	5
377	Disulfide Bond-Based SN38 Prodrug Nanoassemblies with High Drug Loading and Reduction-Triggered Drug Release for Pancreatic Cancer Therapy. International Journal of Nanomedicine, O, Volume 18, 1281-1298.	3.3	5
378	Structure modification: a successful tool for prodrug design. Future Medicinal Chemistry, 2023, 15, 379-393.	1.1	5
379	Lipid Prodrug Nanoassemblies via Dynamic Covalent Boronates. ACS Nano, 2023, 17, 6601-6614.	7.3	20
380	Mycophenolic acid isobutanolammonium salt: synthesis, structural characterization, and solubility investigations. Journal of Thermal Analysis and Calorimetry, 2023, 148, 4247-4254.	2.0	3
381	Rational Design in Photopharmacology with Molecular Photoswitches. Angewandte Chemie, 2023, 135, ·	1.6	3
382	Neurotherapeutic Potential of Water-Soluble pH-Responsive Prodrugs of EIDD-036 in Traumatic Brain Injury. Journal of Medicinal Chemistry, 2023, 66, 5397-5414.	2.9	2
383	Rational Design in Photopharmacology with Molecular Photoswitches. Angewandte Chemie - International Edition, 2023, 62, .	7.2	25
384	Thiazolide Prodrug Esters and Derived Peptides: Synthesis and Activity. ACS Bio & Med Chem Au, 0, , .	1.7	0
385	The pursuit of natural medicine—a current perspective. , 2023, , 173-192.		0
389	Synthesis of Veliparib Prodrugs and Determination of Drug-Release-Dependent PARP-1 Inhibition. ACS Medicinal Chemistry Letters, 2023, 14, 652-657.	1.3	2
391	Drug targeting in anticancer chemotherapy. , 2023, , 823-899.		0
395	The Biocatalysis in Cancer Therapy. ACS Catalysis, 2023, 13, 7730-7755.	5.5	2
396	Novel Concept for Super-Soft Topical Drugs: Deactivation by an Enzyme-Induced Switch into an Inactive Conformation. ACS Medicinal Chemistry Letters, 2023, 14, 841-845.	1.3	1
403	A3 Adenosine Receptor Ligands: From Discovery to Clinical Trials. Topics in Medicinal Chemistry, 2023, ,	0.4	0
422	Glycosidase-targeting small molecules for biological and therapeutic applications. Chemical Society Reviews, 2023, 52, 7036-7070.	18.7	5
432	Enhancing the Prodrug ADME Profile: An Emerging Area to Overcome the Issues of Cancer Drug Resistance. , 2023, , 1-12.		0

#	Article	IF	CITATIONS
435	Bioorthogonal chemistry for prodrug activation <i>in vivo</i> . Chemical Society Reviews, 2023, 52, 7737-7772.	18.7	3
454	Exploring the next generation of antibody–drug conjugates. Nature Reviews Clinical Oncology, 2024, 21, 203-223.	12.5	5