List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	RNA aptamers specific for transmembrane p24 trafficking protein 6 and Clusterin for the targeted delivery of imaging reagents and RNA therapeutics to human β cells. Nature Communications, 2022, 13, 1815.	12.8	6
2	Developing Small-Molecule Inhibitors of Protein-Protein Interactions Involved in Viral Entry as Potential Antivirals for COVID-19. Frontiers in Drug Discovery, 2022, 2, .	2.8	5
3	Parallel Evaluation of Polyethylene Glycol Conformal Coating and Alginate Microencapsulation as Immunoisolation Strategies for Pancreatic Islet Transplantation. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	4.1	4
4	Methylene Blue Is a Nonspecific Protein–Protein Interaction Inhibitor with Potential for Repurposing as an Antiviral for COVID-19. Pharmaceuticals, 2022, 15, 621.	3.8	8
5	Drug-Integrating Amphiphilic Nanomaterial Assemblies: 1. Spatiotemporal control of cyclosporine delivery and activity using nanomicelles and nanofibrils. Journal of Controlled Release, 2021, 329, 955-970.	9.9	8
6	Growth hormone-releasing hormone agonists ameliorate chronic kidney disease-induced heart failure with preserved ejection fraction. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	12
7	Organoid microphysiological system preserves pancreatic islet function within 3D matrix. Science Advances, 2021, 7, .	10.3	59
8	Parallel Multi-Omics in High-Risk Subjects for the Identification of Integrated Biomarker Signatures of Type 1 Diabetes. Biomolecules, 2021, 11, 383.	4.0	17
9	Small-Molecule Inhibitors of the Coronavirus Spike: ACE2 Protein–Protein Interaction as Blockers of Viral Attachment and Entry for SARS-CoV-2. ACS Infectious Diseases, 2021, 7, 1519-1534.	3.8	77
10	Cdc42 GTPase-activating proteins (GAPs) regulate generational inheritance of cell polarity and cell shape in fission yeast. Molecular Biology of the Cell, 2021, 32, ar14.	2.1	4
11	A single unified model for fitting simple to complex receptor response data. Scientific Reports, 2020, 10, 13386.	3.3	19
12	Controlled Nutrient Delivery to Pancreatic Islets Using Polydopamine-Coated Mesoporous Silica Nanoparticles. Nano Letters, 2020, 20, 7220-7229.	9.1	16
13	Soft drugs: design principles, success stories, and future perspectives. Expert Opinion on Drug Metabolism and Toxicology, 2020, 16, 645-650.	3.3	16
14	A Collagen Based Cryogel Bioscaffold that Generates Oxygen for Islet Transplantation. Advanced Functional Materials, 2020, 30, 1902463.	14.9	40
15	Islet Transplantation: A Collagen Based Cryogel Bioscaffold that Generates Oxygen for Islet Transplantation (Adv. Funct. Mater. 15/2020). Advanced Functional Materials, 2020, 30, 2070099.	14.9	1
16	The Effect of Recovery Warm-up Time Following Cold Storage on the Dynamic Glucose-stimulated Insulin Secretion of Isolated Human Islets. Cell Transplantation, 2020, 29, 096368972090827.	2.5	0
17	Methylene Blue Inhibits the SARS-CoV-2 Spike–ACE2 Protein-Protein Interaction–a Mechanism that can Contribute to its Antiviral Activity Against COVID-19. Frontiers in Pharmacology, 2020, 11, 600372.	3.5	64
18	Longitudinal proteomics analysis in the immediate microenvironment of islet allografts during progression of rejection. Journal of Proteomics, 2020, 223, 103826.	2.4	9

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19	A Receptor Model With Binding Affinity, Activation Efficacy, and Signal Amplification Parameters for Complex Fractional Response Versus Occupancy Data. Frontiers in Pharmacology, 2019, 10, 605.	3.5	37
20	Concentration-Dependency and Time Profile of Insulin Secretion: Dynamic Perifusion Studies With Human and Murine Islets. Frontiers in Endocrinology, 2019, 10, 680.	3.5	45
21	CD40-targeting KGYY15 peptides do not efficiently block the CD40–CD40L interaction. Diabetologia, 2019, 62, 2158-2160.	6.3	5
22	Feasibility of Localized Metabolomics in the Study of Pancreatic Islets and Diabetes. Metabolites, 2019, 9, 207.	2.9	9
23	In vivo imaging of type 1 diabetes immunopathology using eye-transplanted islets in NOD mice. Diabetologia, 2019, 62, 1237-1250.	6.3	20
24	A Double Fail-Safe Approach to Prevent Tumorigenesis and Select Pancreatic Î ² Cells from Human Embryonic Stem Cells. Stem Cell Reports, 2019, 12, 611-623.	4.8	32
25	Local delivery of fingolimod from threeâ€dimensional scaffolds impacts islet graft efficacy and microenvironment in a murine diabetic model. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 393-404.	2.7	29
26	Design, Synthesis, and Evaluation of Novel Immunomodulatory Small Molecules Targeting the CD40–CD154 Costimulatory Protein-Protein Interaction. Molecules, 2018, 23, 1153.	3.8	13
27	Glucoseâ€stimulated insulin release: Parallel perifusion studies of free and hydrogel encapsulated human pancreatic islets. Biotechnology and Bioengineering, 2018, 115, 232-245.	3.3	62
28	Toward Small-Molecule Inhibition of Protein–Protein Interactions: General Aspects and Recent Progress in Targeting Costimulatory and Coinhibitory (Immune Checkpoint) Interactions. Current Topics in Medicinal Chemistry, 2018, 18, 674-699.	2.1	69
29	Predicting Insulin Secretion Profiles for Immunoisolating Devices with Transplanted Islets. Diabetes, 2018, 67, 27-OR.	0.6	1
30	Effect of Arginase-1 Inhibition on the Incidence of Autoimmune Diabetes in NOD Mice. Current Research in Diabetes & Obesity Journal, 2018, 5, .	0.0	4
31	Resealable, optically accessible, PDMS-free fluidic platform for ex vivo interrogation of pancreatic islets. Lab on A Chip, 2017, 17, 772-781.	6.0	52
32	Metabolomics Study of the Effects of Inflammation, Hypoxia, and High Glucose on Isolated Human Pancreatic Islets. Journal of Proteome Research, 2017, 16, 2294-2306.	3.7	35
33	A threeâ€parameter twoâ€state model of receptor function that incorporates affinity, efficacy, and signal amplification. Pharmacology Research and Perspectives, 2017, 5, e00311.	2.4	21
34	Small-Molecule Inhibitors of the CD40–CD40L Costimulatory Protein–Protein Interaction. Journal of Medicinal Chemistry, 2017, 60, 8906-8922.	6.4	22
35	Comprehensive Metabolomics Study To Assess Longitudinal Biochemical Changes and Potential Early Biomarkers in Nonobese Diabetic Mice That Progress to Diabetes. Journal of Proteome Research, 2017, 16, 3873-3890.	3.7	13
36	Dose-escalation study of octanoic acid in patients with essential tremor. Journal of Clinical Investigation, 2016, 126, 1451-1457.	8.2	17

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37	Cell length growth patterns in fission yeast reveal a novel size control mechanism operating in late G2 phase. Biology of the Cell, 2016, 108, 259-277.	2.0	12
38	Brain-Targeting Chemical Delivery Systems and Their Cyclodextrin-Based Formulations in Light of the Contributions of Marcus E. Brewster. Journal of Pharmaceutical Sciences, 2016, 105, 2589-2600.	3.3	16
39	Vitamin D and androgen receptor-targeted therapy for triple-negative breast cancer. Breast Cancer Research and Treatment, 2016, 157, 77-90.	2.5	52
40	Fully Automated Islet Cell Counter (ICC) for the Assessment of Islet Mass, Purity, and Size Distribution by Digital Image Analysis. Cell Transplantation, 2016, 25, 1747-1761.	2.5	19
41	Biphasic decline of βâ€cell function with age in euglycemic nonobese diabetic mice parallels diabetes onset. IUBMB Life, 2015, 67, 634-644.	3.4	8
42	Controlled Release of Dexamethasone from Organosilicone Constructs for Local Modulation of Inflammation in Islet Transplantation. Tissue Engineering - Part A, 2015, 21, 2250-2261.	3.1	31
43	Experimental evaluation and computational modeling of the effects of encapsulation on the time-profile of glucose-stimulated insulin release of pancreatic islets. BioMedical Engineering OnLine, 2015, 14, 28.	2.7	25
44	Phosphorylation-dependent inhibition of Cdc42 GEF Gef1 by 14-3-3 protein Rad24 spatially regulates Cdc42 GTPase activity and oscillatory dynamics during cell morphogenesis. Molecular Biology of the Cell, 2015, 26, 3520-3534.	2.1	40
45	Characterization of twenty-five ovarian tumour cell lines that phenocopy primary tumours. Nature Communications, 2015, 6, 7419.	12.8	149
46	TNF Superfamily Protein-Protein Interactions: Feasibility of Small- Molecule Modulation. Current Drug Targets, 2015, 16, 393-408.	2.1	28
47	Activity-Limiting Role of Molecular Size: Size-Dependency of Maximum Activity for P450 Inhibition as Revealed by qHTS Data. Drug Metabolism and Disposition, 2014, 42, 1785-1790.	3.3	6
48	Bilinear Model for the Sizeâ€Dependency of the CYP3A4 Inhibitory Activity of Structurally Diverse Compounds. Molecular Informatics, 2014, 33, 8-14.	2.5	2
49	Effects of representative glucocorticoids on TNFα- and CD40L-induced NF-κB activation in sensor cells. Steroids, 2014, 85, 36-43.	1.8	17
50	Is there a universal rule for cellular growth? - Problems in studying and interpreting this phenomenon. FEMS Yeast Research, 2014, 14, 679-682.	2.3	5
51	Smallâ€molecule modulators of the <scp>OX</scp> 40– <scp>OX40</scp> ligand coâ€stimulatory protein–protein interaction. British Journal of Pharmacology, 2014, 171, 4955-4969.	5.4	27
52	Recent advances in the design and development of soft drugs. Die Pharmazie, 2014, 69, 403-13.	0.5	18
53	Cell length growth in fission yeast: an analysis of its bilinear character and the nature of its rate change transition. FEMS Yeast Research, 2013, 13, 635-649.	2.3	24
54	The promiscuous protein binding ability of erythrosine B studied by metachromasy (metachromasia). Journal of Molecular Recognition, 2013, 26, 181-189.	2.1	14

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55	Octanoic acid in alcohol-responsive essential tremor. Neurology, 2013, 80, 933-940.	1.1	34
56	Glucose-stimulated insulin secretion in isolated pancreatic islets: Multiphysics FEM model calculations compared to results of perifusion experiments with human islets. Journal of Biomedical Science and Engineering, 2013, 06, 26-35.	0.4	7
57	Oscillatory Dynamics of Cdc42 GTPase in the Control of Polarized Growth. Science, 2012, 337, 239-243.	12.6	148
58	Exploratory computational assessment of possible binding modes for small molecule inhibitors of the CD40-CD154 co-stimulatory interaction. Die Pharmazie, 2012, 67, 374-9.	0.5	4
59	Feasibility of localized immunosuppression: 3. Preliminary evaluation of organosilicone constructs designed for sustained drug release in a cell transplant environment using dexamethasone. Die Pharmazie, 2012, 67, 394-9.	0.5	8
60	Modeling Fission-Yeast Growth Partitioning and Oscillating Cortical Cdc42 Populations. Biophysical Journal, 2011, 100, 445a.	0.5	1
61	Quantification of the Islet Product: Presentation of a Standardized Current Good Manufacturing Practices Compliant System With Minimal Variability. Transplantation, 2011, 91, 677-683.	1.0	36
62	The food colorant erythrosine is a promiscuous protein–protein interaction inhibitor. Biochemical Pharmacology, 2011, 81, 810-818.	4.4	57
63	An Open-Label, Single-Dose, Crossover Study of the Pharmacokinetics and Metabolism of Two Oral Formulations of 1-Octanol in Patients with Essential Tremor. Neurotherapeutics, 2011, 8, 753-762.	4.4	31
64	A local glucose-and oxygen concentration-based insulin secretion model for pancreatic islets. Theoretical Biology and Medical Modelling, 2011, 8, 20.	2.1	104
65	Organic dyes as small molecule protein–protein interaction inhibitors for the CD40–CD154 costimulatory interaction. Journal of Molecular Recognition, 2010, 23, 65-73.	2.1	9
66	Choice of Immunosuppression Influences Cytomegalovirus DNAemia in Cynomolgus Monkey (<i>Macaca fascicularis</i>) Islet Allograft Recipients. Cell Transplantation, 2010, 19, 1547-1561.	2.5	12
67	A simple, predictive, structure-based skin permeability model. Journal of Pharmacy and Pharmacology, 2010, 53, 1087-1098.	2.4	67
68	Direct, differential-equation-based in-vitro–in-vivo correlation (IVIVC) method. Journal of Pharmacy and Pharmacology, 2010, 55, 495-504.	2.4	56
69	Synthesis and pharmacological effects of new, N-substituted soft anticholinergics based on glycopyrrolate. Journal of Pharmacy and Pharmacology, 2010, 57, 1427-1435.	2.4	17
70	Novel, cell-penetrating molecular transporters with flexible backbones and permanently charged side-chains. Journal of Pharmacy and Pharmacology, 2010, 59, 1065-1076.	2.4	13
71	Pharmacokinetics of the sequential metabolites of loteprednol etabonate in rats. Journal of Pharmacy and Pharmacology, 2010, 60, 291-297.	2.4	8
72	Smallâ€molecule protein–protein interaction inhibitors: Therapeutic potential in light of molecular size, chemical space, and ligand binding efficiency considerations. IUBMB Life, 2010, 62, 724-731.	3.4	115

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73	Research Article: Effective and Specific Inhibition of the CD40–CD154 Costimulatory Interaction by a Naphthalenesulphonic Acid Derivative. Chemical Biology and Drug Design, 2010, 76, 305-313.	3.2	17
74	Molecular Organization of the Complex between the Muscarinic M3 Receptor and the Regulator of G Protein Signaling, Gl² ₅ â^'RGS7. Biochemistry, 2010, 49, 4998-5006.	2.5	17
75	Feasibility of localized immunosuppression: 1. Exploratory studies with glucocorticoids in a biohybrid device designed for cell transplantation. Die Pharmazie, 2010, 65, 421-8.	0.5	19
76	Suramin inhibits the CD40–CD154 costimulatory interaction: A possible mechanism for immunosuppressive effects. Biochemical Pharmacology, 2009, 77, 1236-1245.	4.4	28
77	Small-molecule costimulatory blockade: organic dye inhibitors of the CD40–CD154 interaction. Journal of Molecular Medicine, 2009, 87, 1133-1143.	3.9	34
78	FEM-based oxygen consumption and cell viability models for avascular pancreatic islets. Theoretical Biology and Medical Modelling, 2009, 6, 5.	2.1	140
79	Quantitative Assessment of Islet Cell Products: Estimating the Accuracy of the Existing Protocol and Accounting for Islet Size Distribution. Cell Transplantation, 2009, 18, 1223-1235.	2.5	61
80	Retrometabolic drug design: Principles and recent developments. Pure and Applied Chemistry, 2008, 80, 1669-1682.	1.9	21
81	Glucocorticoid receptor binding: A biphasic dependence on molecular size as revealed by the bilinear LinBiExp model. Steroids, 2008, 73, 193-208.	1.8	39
82	The quantitative characterization of free radical sources and traps by electromigration applications. Journal of Proteomics, 2008, 70, 1317-1323.	2.4	1
83	Structural studies on the chiral selector capacity of cyclodextrin derivatives. Journal of Proteomics, 2008, 70, 1276-1282.	2.4	13
84	High-Throughput Screening for Human Galactokinase Inhibitors. Journal of Biomolecular Screening, 2008, 13, 415-423.	2.6	45
85	Stereoisomers of N-substituted soft anticholinergics and their zwitterionic metabolite based on glycopyrrolatesyntheses and pharmacological evaluations. Die Pharmazie, 2008, 63, 200-9.	0.5	7
86	Soft corticosteroids for local immunosuppression: exploring the possibility for the use of loteprednol etabonate for islet transplantation. Die Pharmazie, 2008, 63, 226-32.	0.5	14
87	A general bilinear model to describe growth or decline time profiles. Mathematical Biosciences, 2007, 205, 108-136.	1.9	44
88	Computer-aided retrometabolic drug design: soft drugs. Expert Opinion on Drug Discovery, 2007, 2, 923-933.	5.0	7
89	Brain-Targeted Delivery of Estradiol. American Journal of Drug Delivery, 2006, 4, 161-175.	0.6	11
90	Soft Quaternary Anticholinergics:Â Comprehensive Quantitative Structureâ^'Activity Relationship (QSAR) with a Linearized Biexponential (LinBiExp) Model. Journal of Medicinal Chemistry, 2006, 49, 883-891.	6.4	18

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91	The time-profile of cell growth in fission yeast: model selection criteria favoring bilinear models over exponential ones. Theoretical Biology and Medical Modelling, 2006, 3, 16.	2.1	26
92	Corticosteroid Design for the Treatment of Asthma: Structural Insights and the Therapeutic Potential of Soft Corticosteroids. Current Pharmaceutical Design, 2006, 12, 3241-3260.	1.9	42
93	Differences in the glucocorticoid to progesterone receptor selectivity of inhaled glucocorticoids. European Respiratory Journal, 2006, 27, 511-516.	6.7	35
94	General Linearized Biexponential Model for QSAR Data Showing Bilinear-Type Distribution. Journal of Pharmaceutical Sciences, 2005, 94, 2355-2379.	3.3	33
95	Unified Pharmacogenetics-Based Parent–Metabolite Pharmacokinetic Model Incorporating Acetylation Polymorphism for Talampanel in Humans. Journal of Pharmacokinetics and Pharmacodynamics, 2005, 32, 377-400.	1.8	4
96	Pharmacokinetic and Pharmacodynamic Evaluations of the Zwitterionic Metabolite of a New Series of N-Substituted Soft Anticholinergics. Pharmaceutical Research, 2005, 22, 2035-2044.	3.5	10
97	QSAR Study of 2,3-Benzodiazepin-4(thi)one- and 1,2-Phthalazine-Related Negative Allosteric Modulators of the AMPA Receptor: A Structural Descriptors-Based Reassessment. QSAR and Combinatorial Science, 2005, 24, 325-331.	1.4	7
98	Ophthalmic drug design based on the metabolic activity of the eye: Soft drugs and chemical delivery systems. AAPS Journal, 2005, 7, E820-E833.	4.4	86
99	Designing Safer (Soft) Drugs by Avoiding the Formation of Toxic and Oxidative Metabolites. Molecular Biotechnology, 2004, 26, 123-132.	2.4	30
100	Soft glucocorticoid design: structural elements and physicochemical parameters determining receptor-binding affinity. Die Pharmazie, 2004, 59, 396-404.	0.5	22
101	Brain-Targeted Drug Delivery. American Journal of Drug Delivery, 2003, 1, 13-26.	0.6	53
102	Designing Safer (Soft) Drugs by Avoiding the Formation of Toxic and Oxidative Metabolites. , 2002, 186, 301-312.		4
103	Complexation Thermodynamics of Cyclodextrins in the Framework of a Molecular Size-Based Model for Nonassociative Organic Liquids That Includes a Modified Hydration-Shell Hydrogen-Bond Model for Water. Journal of Physical Chemistry B, 2002, 106, 6864-6870.	2.6	31
104	In Vitro and In Vivo Evaluations of Dihydroquinoline- and Dihydroisoquinoline-based Targetor Moieties for Brain-specific Chemical Delivery Systems. Journal of Drug Targeting, 2002, 10, 63-71.	4.4	21
105	Barriers to remember: brain-targeting chemical delivery systems and Alzheimer's disease. Drug Discovery Today, 2002, 7, 766-774.	6.4	79
106	Theoretical Insights into the Formation, Structure, and Energetics of Some Cyclodextrin Complexes. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2002, 44, 9-14.	1.6	19
107	Computer-aided drug design: the role of quantitative structure-property, structure-activity and structure-metabolism relationships (QSPR, QSAR, QSMR). Drugs of the Future, 2002, 27, 577.	0.1	54
108	Physicochemical aspects of the enzymatic hydrolysis of carboxylic esters. Die Pharmazie, 2002, 57, 87-93.	0.5	20

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109	DRUG TARGETING BY RETROMETABOLIC DESIGN: SOFT DRUGS AND CHEMICAL DELIVERY SYSTEMS. Journal of Receptor and Signal Transduction Research, 2001, 21, 287-310.	2.5	5
110	Drug Targeting by Retrometabolic Design. Drugs and the Pharmaceutical Sciences, 2001, , .	0.1	0
111	Receptor binding studies of soft anticholinergic agents. AAPS PharmSci, 2001, 3, 44-56.	1.3	36
112	Structure-Metabolism Relationships Steric Effects and the Enzymatic Hydrolysis of Carboxylic Esters. Mini-Reviews in Medicinal Chemistry, 2001, 1, 101-111.	2.4	33
113	Attempts of Ranking in a Series of Synthetic Nonpsychotropic Cannabinoids. SAR and QSAR in Environmental Research, 2001, 12, 113-127.	2.2	2
114	Soft drug design: General principles and recent applications. Medicinal Research Reviews, 2000, 20, 58-101.	10.5	220
115	Extended covalent solid forms of carbon dioxide with carbon–oxygen single bonds. Chemical Physics Letters, 2000, 319, 645-649.	2.6	6
116	Modeling liquid properties, solvation, and hydrophobicity: A molecular size-based perspective. Journal of Computer - Aided Molecular Design, 2000, 19, 19-45.	1.0	17
117	Simple Model for Nonassociative Organic Liquids and Water. Journal of the American Chemical Society, 2000, 122, 10671-10679.	13.7	21
118	Structure-based estimation of enzymatic hydrolysis rates and its application in computer-aided retrometabolic drug design. Die Pharmazie, 2000, 55, 210-7.	0.5	13
119	The Role of Computational Techniques in Retrometabolic Drug Design Strategies. Theoretical and Computational Chemistry, 1999, , 569-618.	0.4	14
120	Recent advances in the brain targeting of neuropharmaceuticals by chemical delivery systems. Advanced Drug Delivery Reviews, 1999, 36, 229-254.	13.7	157
121	NMR investigation and secondary structure of domains I and II of rat brain calbindin D28k (1-93). FEBS Journal, 1999, 262, 933-938.	0.2	7
122	Quantitative Structureâ^'Metabolism Relationships:Â Steric and Nonsteric Effects in the Enzymatic Hydrolysis of Noncongener Carboxylic Esters. Journal of Medicinal Chemistry, 1999, 42, 5160-5168.	6.4	74
123	Octanol–water partition of nonzwitterionic peptides: Predictive power of a molecular size-based model. , 1998, 30, 86-99.		50
124	Design and evaluation of new soft anticholinergic agents. Drug Development Research, 1998, 43, 117-127.	2.9	12
125	Targeted drug delivery to the brain via phosphonate derivatives II. Anionic chemical delivery system for zidovudine (AZT). International Journal of Pharmaceutics, 1998, 166, 27-35.	5.2	29
126	Targeted drug delivery to the brain via phosphonate derivatives. International Journal of Pharmaceutics, 1998, 166, 15-26.	5.2	29

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127	Molecular Size-Based Model To Describe Simple Organic Liquids. Journal of Physical Chemistry B, 1998, 102, 5715-5726.	2.6	30
128	Computer-Assisted Design of New Drugs Based on Retrometabolic Concepts. SAR and QSAR in Environmental Research, 1998, 8, 41-92.	2.2	26
129	Octanol-water partition: searching for predictive models. Current Medicinal Chemistry, 1998, 5, 353-80.	2.4	25
130	Octanol-Water Partition: Searching for Predictive Models. Current Medicinal Chemistry, 1998, 5, 353-380.	2.4	159
131	Molecular Size Based Approach To Estimate Partition Properties for Organic Solutes. Journal of Physical Chemistry B, 1997, 101, 3404-3412.	2.6	96
132	Drug targeting via retrometabolic approaches. , 1997, 76, 1-27.		54
133	Drug targeting via retrometabolic approaches. , 1997, 76, 1-27.		7