

Abraham Nudelman

List of Publications by Year in descending order

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110
papers

9,535
citations

117625

34
h-index

39675

94
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110
all docs

110
docs citations

110
times ranked

12474
citing authors

#	ARTICLE	IF	CITATIONS
1	NMR Chemical Shifts of Common Laboratory Solvents as Trace Impurities. <i>Journal of Organic Chemistry</i> , 1997, 62, 7512-7515.	3.2	3,270
2	NMR Chemical Shifts of Trace Impurities: Common Laboratory Solvents, Organics, and Gases in Deuterated Solvents Relevant to the Organometallic Chemist. <i>Organometallics</i> , 2010, 29, 2176-2179.	2.3	3,142
3	Doxorubicin-DNA Adducts Induce a Non-Topoisomerase II α -Mediated Form of Cell Death. <i>Cancer Research</i> , 2006, 66, 4863-4871.	0.9	250
4	Studies in sugar chemistry. 2. A simple method for O-deacylation of polyacylated sugars. <i>Journal of Organic Chemistry</i> , 1986, 51, 727-730.	3.2	109
5	Derivatives of butyric acid as potential anti-neoplastic agents. <i>International Journal of Cancer</i> , 1991, 49, 66-72.	5.1	95
6	<i>Synthetic Communications</i> , 1998, 28, 471-474.	2.1	90
7	Novel anticancer prodrugs of butyric acid. 2. <i>Journal of Medicinal Chemistry</i> , 1992, 35, 687-694.	6.4	89
8	Organotin nucleophiles. 6. Palladium-catalyzed allylic etherification with tin alkoxides. <i>Journal of Organic Chemistry</i> , 1985, 50, 3558-3566.	3.2	87
9	Butyric acid prodrugs are histone deacetylase inhibitors that show antineoplastic activity and radiosensitizing capacity in the treatment of malignant gliomas. <i>Molecular Cancer Therapeutics</i> , 2005, 4, 1952-1961.	4.1	74
10	Selective deacetylation of anomeric sugar acetates with tin alkoxides. <i>Carbohydrate Research</i> , 1987, 162, 145-152.	2.3	73
11	The histone deacetylase inhibitor AN-9 has selective toxicity to acute leukemia and drug-resistant primary leukemia and cancer cell lines. <i>Blood</i> , 2002, 100, 3319-3324.	1.4	70
12	Prodrugs of butyric acid from bench to bedside: Synthetic design, mechanisms of action, and clinical applications. <i>Drug Development Research</i> , 2000, 50, 379-391.	2.9	67
13	On the Stabilization of the Syn-Rotamer of Amino Acid Carbamate Derivatives by Hydrogen Bonding. <i>Journal of Organic Chemistry</i> , 1996, 61, 8402-8406.	3.2	66
14	Prodrugs of butyric acid. Novel derivatives possessing increased aqueous solubility and potential for treating cancer and blood diseases. <i>European Journal of Medicinal Chemistry</i> , 2001, 36, 63-74.	5.5	64
15	A novel method for stereoselective glucuronidation. <i>Journal of Organic Chemistry</i> , 1984, 49, 4988-4993.	3.2	63
16	Carbamate Derivatives of Indolines as Cholinesterase Inhibitors and Antioxidants for the Treatment of Alzheimer's Disease. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 10700-10715.	6.4	61
17	Activation of DNA damage response pathways as a consequence of anthracycline-DNA adduct formation. <i>Biochemical Pharmacology</i> , 2012, 83, 1602-1612.	4.4	55
18	The Role of Intracellularly Released Formaldehyde and Butyric Acid in the Anticancer Activity of Acyloxyalkyl Esters. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 1042-1054.	6.4	51

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19	Comparison between the effect of butyric acid and its prodrug pivaloyloxymethylbutyrate on histones hyperacetylation in an HL-60 leukemic cell line. <i>International Journal of Cancer</i> , 1994, 56, 906-909.	5.1	50
20	The stereochemical course of ester-amide interchange leading to optically active phosphinic and sulfonic amides. <i>Journal of the American Chemical Society</i> , 1968, 90, 3869-3870.	13.7	49
21	Rapid alteration of c-myc and c-jun expression in leukemic cells induced to differentiate by a butyric acid prodrug. <i>FEBS Letters</i> , 1993, 328, 225-229.	2.8	49
22	Enthalpies of transfer of transition states in the Menshutkin reaction from a polar protic to a dipolar aprotic solvent. <i>Journal of Organic Chemistry</i> , 1971, 36, 1792-1795.	3.2	48
23	In vivo efficacy of a novel histone deacetylase inhibitor in combination with radiation for the treatment of gliomas. <i>Neuro-Oncology</i> , 2007, 9, 82-88.	1.2	47
24	A Convenient Synthesis of Chiral Oxazolidin-2-Ones and Thiazolidin-2-Ones and an Improved Preparation of Triphosgene. <i>Synthetic Communications</i> , 1993, 23, 2839-2844.	2.1	44
25	Novel Mutual Prodrug of Retinoic and Butyric Acids with Enhanced Anticancer Activity. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 2962-2966.	6.4	41
26	In vivo and in vitro antitumor activity of butyroyloxymethyl-diethyl phosphate (AN-7), a histone deacetylase inhibitor, in human prostate cancer. <i>International Journal of Cancer</i> , 2005, 116, 226-235.	5.1	39
27	Synthesis and Biological Evaluation of Derivatives of Indoline as Highly Potent Antioxidant and Anti-inflammatory Agents. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 4004-4019.	6.4	39
28	Utilization of L-serine in an oxime olefin cycloaddition route to a functionalized asymmetric pyrrolidine, a selective α -glucosidase inhibitor. <i>Tetrahedron Letters</i> , 1994, 35, 2397-2400.	1.4	38
29	Novel Multifunctional Acyloxyalkyl Ester Prodrugs of 5-Aminolevulinic Acid Display Improved Anticancer Activity Independent and Dependent on Photoactivation. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 7356-7369.	6.4	38
30	IOOC Route to Substituted Chiral Pyrrolidines. Potential Glycosidase Inhibitors. <i>Journal of Organic Chemistry</i> , 1999, 64, 498-506.	3.2	37
31	Histone deacetylase inhibitors: the anticancer, antimetastatic and antiangiogenic activities of AN-7 are superior to those of the clinically tested AN-9 (Pivanex). <i>Clinical and Experimental Metastasis</i> , 2008, 25, 703-716.	3.3	36
32	The cardio-protecting agent and topoisomerase II catalytic inhibitor sobuzoxane enhances doxorubicin-DNA adduct mediated cytotoxicity. <i>Cancer Chemotherapy and Pharmacology</i> , 2008, 61, 739-749.	2.3	35
33	Butyric acid and pivaloyloxymethyl butyrate, AN-9, a novel butyric acid derivative, induce apoptosis in HL-60 cells. <i>Journal of Cancer Research and Clinical Oncology</i> , 1997, 123, 152-160.	2.5	34
34	The selectivity and anti-metastatic activity of oral bioavailable butyric acid prodrugs. <i>Investigational New Drugs</i> , 2006, 24, 383-392.	2.6	34
35	The anticancer prodrugs of butyric acid AN-7 and AN-9, possess antiangiogenic properties. <i>Cancer Letters</i> , 2007, 256, 39-48.	7.2	34
36	De Novo Parallel Design, Synthesis and Evaluation of Inhibitors against the Reverse Transcriptase of Human Immunodeficiency Virus Type-1 and Drug-Resistant Variants. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 2370-2384.	6.4	34

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37	Sequence specificity of adriamycin-DNA adducts in human tumor cells. <i>Molecular Cancer Therapeutics</i> , 2003, 2, 661-70.	4.1	34
38	Stereochemistry of sulfur compounds. II. New reactions at chiral sulfur that complete the first monoligostatic stereochemical reaction cycle. <i>Journal of the American Chemical Society</i> , 1972, 94, 4684-4691.	13.7	33
39	BL-1020: A novel antipsychotic drug with GABAergic activity and low catalepsy, is efficacious in a rat model of schizophrenia. <i>European Neuropsychopharmacology</i> , 2009, 19, 1-13.	0.7	32
40	Modulating ALA-PDT efficacy of mutlidrug resistant MCF-7 breast cancer cells using ALA prodrug. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1926-1933.	2.9	31
41	The histone deacetylase inhibitor butyroyloxymethyl diethylphosphate (AN-7) protects normal cells against toxicity of anticancer agents while augmenting their anticancer activity. <i>Investigational New Drugs</i> , 2012, 30, 130-143.	2.6	31
42	Electrochemical lab on a chip for high-throughput analysis of anticancer drugs efficiency. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2008, 4, 121-126.	3.3	30
43	Mitoxantrone Mediates Demethylation and Re-Expression of Cyclin D2, Estrogen Receptor 14.3.3 Sigma In Breast Cancer Cells. <i>Cancer Biology and Therapy</i> , 2003, 2, 259-263.	3.4	27
44	Mode of interaction between butyroyloxymethyl-diethyl phosphate (AN-7) and doxorubicin in MCF-7 and resistant MCF-7/Dx cell lines. <i>Journal of Cancer Research and Clinical Oncology</i> , 2006, 132, 673-683.	2.5	27
45	Regioselective heterogeneous O-deacylation of polyacylated sugars. <i>Carbohydrate Research</i> , 1986, 153, 162-167.	2.3	26
46	Hydroxy-1-aminoindans and Derivatives:Â Preparation, Stability, and Reactivity. <i>Journal of Organic Chemistry</i> , 2006, 71, 4130-4140.	3.2	26
47	Synthesis and in vitro evaluation of anti-inflammatory activity of ester and amine derivatives of indoline in RAW 264.7 and peritoneal macrophages. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 2283-2287.	2.2	26
48	A Mutual Prodrug Ester of GABA and Perphenazine Exhibits Antischizophrenic Efficacy with Diminished Extrapryramidal Effects. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 2858-2862.	6.4	24
49	Inhibitors of biotin biosynthesis as potential herbicides. <i>Tetrahedron</i> , 2004, 60, 1731-1748.	1.9	23
50	Stereochemical reaction cycle with chiral phosphorus. <i>Journal of Organic Chemistry</i> , 1971, 36, 335-337.	3.2	22
51	Water-Soluble Derivatives of 3-Oxy-substituted 1,4-Benzodiazepines. <i>Journal of Pharmaceutical Sciences</i> , 1974, 63, 1880-1885.	3.3	22
52	ABT-737 overcomes Bcl-2 mediated resistance to doxorubicinâ€™DNA adducts. <i>Biochemical Pharmacology</i> , 2010, 79, 339-349.	4.4	22
53	Disparate Impact of Butyroyloxymethyl Diethylphosphate (AN-7), a Histone Deacetylase Inhibitor, and Doxorubicin in Mice Bearing a Mammary Tumor. <i>PLoS ONE</i> , 2012, 7, e31393.	2.5	22
54	Development of GSK's NMR guides â€™ a tool to encourage the use of more sustainable solvents. <i>Green Chemistry</i> , 2016, 18, 3867-3878.	9.0	22

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55	Activation of adriamycin by the pH-dependent formaldehyde-releasing prodrug hexamethylenetetramine. <i>Molecular Cancer Therapeutics</i> , 2003, 2, 189-98.	4.1	22
56	Novel Prodrugs of Tegafur that Display Improved Anticancer Activity and Antiangiogenic Properties. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 314-323.	6.4	21
57	New Anthracenedione Derivatives with Improved Biological Activity by Virtue of Stable Drug-DNA Adduct Formation. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 6851-6866.	6.4	21
58	Formaldehyde-releasing prodrugs specifically affect cancer cells by depletion of intracellular glutathione and augmentation of reactive oxygen species. <i>Cancer Chemotherapy and Pharmacology</i> , 2008, 62, 471-482.	2.3	19
59	Potential Therapeutic Advantages of Doxorubicin when Activated by Formaldehyde to Function as a DNA Adduct-Forming Agent. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 1409-1422.	2.1	19
60	Uptake of pivaloyloxymethyl butyrate into leukemic cells and its intracellular esterase-catalyzed hydrolysis. <i>Journal of Cancer Research and Clinical Oncology</i> , 2000, 126, 693-698.	2.5	18
61	Light-Sensitive Protecting Groups for Amines and Alcohols: The Photosolvolysis of N-Substituted 7-Nitroindolines. <i>Synlett</i> , 2007, 2007, 2405-2409.	1.8	18
62	Effect of the cytostatic butyric acid pro-drug, pivaloyloxymethyl butyrate, on the tumorigenicity of cancer cells. <i>Journal of Cancer Research and Clinical Oncology</i> , 1997, 123, 267-271.	2.5	17
63	Activation of clinically used anthracyclines by the formaldehyde-releasing prodrug pivaloyloxymethyl butyrate. <i>Molecular Cancer Therapeutics</i> , 2007, 6, 1450-1459.	4.1	17
64	A novel valproic acid prodrug as an anticancer agent that enhances doxorubicin anticancer activity and protects normal cells against its toxicity in vitro and in vivo. <i>Biochemical Pharmacology</i> , 2014, 88, 158-168.	4.4	17
65	1-Tributyltin-O-2,3-bisacetyl-4,6-ethylidene-glucose as a convenient glycosidation reagent: An efficient synthesis of etoposide. <i>Tetrahedron</i> , 1996, 52, 3049-3056.	1.9	16
66	Methanolysis of acetylated sugars and glycosides in the presence of tin oxides and alkoxides. <i>Carbohydrate Research</i> , 1988, 177, 21-28.	2.3	15
67	Cinnamic acid derived oxazolinium ions as novel cytotoxic agents. <i>European Journal of Medicinal Chemistry</i> , 2002, 37, 607-616.	5.5	15
68	Comparison of the anticancer properties of a novel valproic acid prodrug to leading histone deacetylase inhibitors. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 3417-3428.	2.6	15
69	Enol oxalacetic acid exists in the Z form in the crystalline state and in solution. <i>Journal of Organic Chemistry</i> , 1992, 57, 7270-7274.	3.2	14
70	From Amino Acids to Fused Chiral Pyrrolidines and Piperidines via the INOC Route. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 645-655.	2.4	14
71	AN-7, a butyric acid prodrug, sensitizes cutaneous T-cell lymphoma cell lines to doxorubicin via inhibition of DNA double strand breaks repair. <i>Investigational New Drugs</i> , 2018, 36, 1-9.	2.6	14
72	THE CHEMISTRY OF OPTICALLY ACTIVE SULFUR COMPOUNDS PART III. Phosphorous and Sulfur and the Related Elements, 1976, 2, 51-94.	0.2	13

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73	β -Aminobutyric Acid Amides of Nortriptyline and Fluoxetine Display Improved Pain Suppressing Activity. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 3010-3017.	6.4	13
74	Structure-activity relationship studies of 1-(4-chloro-2,5-dimethoxyphenyl)-3-(3-propoxypropyl)thiourea, a non-nucleoside reverse transcriptase inhibitor of human immunodeficiency virus type-1. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 447-467.	5.5	13
75	Multifunctional 5-aminolevulinic acid prodrugs activating diverse cell-death pathways. <i>Investigational New Drugs</i> , 2012, 30, 1028-1038.	2.6	13
76	Facile structural elucidation of imidazoles and oxazoles based on NMR spectroscopy and quantum mechanical calculations. <i>Tetrahedron</i> , 2010, 66, 1465-1471.	1.9	12
77	The Chemistry of Optically Active Sulfur Compounds-Part IV. Phosphorous and Sulfur and the Related Elements, 1980, 9, 1-79.	0.2	11
78	Studies in ranitidine chemistry: an unusual oxygen-nitrogen methyl migration. <i>Journal of Organic Chemistry</i> , 1986, 51, 730-732.	3.2	11
79	The Synthesis of the Vitamers of Biotin. <i>Bioorganic Chemistry</i> , 1998, 26, 157-168.	4.1	11
80	AN-113, a novel prodrug of 4-phenylbutyrate with increased anti-neoplastic activity in glioma cell lines. <i>Cancer Letters</i> , 2007, 253, 205-214.	7.2	11
81	A retinoid/butyric acid prodrug overcomes retinoic acid resistance in leukemias by induction of apoptosis. <i>Molecular Cancer Research</i> , 2003, 1, 903-12.	3.4	11
82	Rearrangements of penicillin sulfoxides. 2. Spectral data and x-ray crystallography of the novel imidazo[5,1-c][1,4]thiazine ring system. <i>Journal of Organic Chemistry</i> , 1981, 46, 3026-3029.	3.2	10
83	Ethers. <i>Synthetic Communications</i> , 1999, 29, 1405-1408.	2.1	10
84	Conjugate prodrug AN-233 induces fetal hemoglobin expression in sickle erythroid progenitors and β -YAC transgenic mice. <i>Blood Cells, Molecules, and Diseases</i> , 2019, 79, 102345.	1.4	10
85	The Therapeutic Potential of AN-7, a Novel Histone Deacetylase Inhibitor, for Treatment of Mycosis Fungoides/Sezary Syndrome Alone or with Doxorubicin. <i>PLoS ONE</i> , 2016, 11, e0146115.	2.5	10
86	The hydroxyl epimer of doxorubicin controls the rate of formation of cytotoxic anthracycline-DNA adducts. <i>Cancer Chemotherapy and Pharmacology</i> , 2013, 71, 809-816.	2.3	9
87	Cardioprotection by AN-7, a prodrug of the histone deacetylase inhibitor butyric acid: Selective activity in hypoxic cardiomyocytes and cardiofibroblasts. <i>European Journal of Pharmacology</i> , 2020, 882, 173255.	3.5	9
88	Convenient Syntheses of β -Aminolevulinic Acid. <i>Synthesis</i> , 1999, 1999, 568-570.	2.3	8
89	Effects of histone deacetylase inhibitory prodrugs on epigenetic changes and DNA damage response in tumor and heart of glioblastoma xenograft. <i>Investigational New Drugs</i> , 2017, 35, 412-426.	2.6	8
90	Rearrangements of penicillin sulfoxides. 1. <i>Journal of Organic Chemistry</i> , 1977, 42, 2887-2890.	3.2	6

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91	An Improved Synthesis of Hydroxyindoles. <i>Synthesis</i> , 2004, 2004, 3043-3046.	2.3	6
92	Effect of Histone Deacetylase Inhibitor, Butyroyloxymethyl-Diethyl Phosphate (AN-7), on Corneal Neovascularization in a Mouse Model. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2017, 33, 480-486.	1.4	6
93	Unusual condensation-ring closure reaction [forming cyclopropyl sulfoxides]. <i>Journal of Organic Chemistry</i> , 1969, 34, 3659-3661.	3.2	5
94	â€œVinylsâ€ and â€œAcetylenylsâ€ of Î²-Adrenergic Agents. <i>Archiv Der Pharmazie</i> , 1996, 329, 125-132.	4.1	5
95	Bi-functional prodrugs of 5-aminolevulinic acid and butyric acid increase erythropoiesis in anemic mice in an erythropoietin-independent manner. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 91, 91-97.	4.0	5
96	Approaches to Mutual Prodrugs: Calcium - Î²-Blockers. <i>Archiv Der Pharmazie</i> , 1993, 326, 907-909.	4.1	4
97	Hypoxic Radiosensitizers: Substituted Styryl Derivatives. <i>Archiv Der Pharmazie</i> , 1994, 327, 619-625.	4.1	4
98	330, 285-289.	4.1	4
99	Acylation or phosphorylation of hydroxyurea unexpectedly takes place on N rather than on O, leading to the formation of amides instead of the expected esters. <i>RSC Advances</i> , 2015, 5, 24038-24043.	3.6	4
100	Sulfinic acids and their derivatives. <i>Stereochemistry and chiroptical properties.</i> , 0, , 35-85.		3
101	Dimeric Drugs. <i>Current Medicinal Chemistry</i> , 2022, 29, 2751-2845.	2.4	3
102	Semisynthetic cephalosporins. III. Synthesis and structure activity relationships of novel orally active 7-[4-hydroxy-3-(substituted methyl)phenyl]-acetamido-3-cephem-4-carboxylic acids.. <i>Journal of Antibiotics</i> , 1980, 33, 76-82.	2.0	2
103	<i>Archiv Der Pharmazie</i> , 1990, 323, 229-233.	4.1	2
104	Department of Chemistry, Bar-Ilan University (BIU). <i>Israel Journal of Chemistry</i> , 2014, 54, 1488-1499.	2.3	2
105	A switch in mechanism of action prevents doxorubicin-mediated cardiac damage. <i>Biochemical Pharmacology</i> , 2021, 185, 114410.	4.4	2
106	Butyric acid and pivaloyloxymethyl butyrate, AN-9, a novel butyric acid derivative, induce apoptosis in HL-60 cells. <i>Journal of Cancer Research and Clinical Oncology</i> , 1997, 123, 152-160.	2.5	2
107	Effect of the cytostatic butyric acid pro-drug, pivaloyloxymethyl butyrate, on the tumorigenicity of cancer cells. <i>Journal of Cancer Research and Clinical Oncology</i> , 1997, 123, 267-271.	2.5	2
108	Comparison of the tissue distribution and metabolism of AN1284, a potent anti-inflammatory agent, after subcutaneous and oral administration in mice. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2021, 394, 2077-2089.	3.0	1

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109	Valproic Acid Prodrug Affects Selective Markers, Augments Doxorubicin Anticancer Activity and Attenuates Its Toxicity in a Murine Model of Aggressive Breast Cancer. <i>Pharmaceuticals</i> , 2021, 14, 1244.	3.8	0
110	An evaluation of the interaction of pixantrone with formaldehyde-releasing drugs in cancer cells. <i>Cancer Chemotherapy and Pharmacology</i> , 2022, , 1.	2.3	0