# Abraham Nudelman

List of Publications by Year
in descending order



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|---|---|---|---|
| 110 papers | 9,535 citations | 117453 34 h-index | 39575 94 g-index |
| 110 all docs | 110 docs citations | 110 times ranked | 12474 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Dimeric Drugs. Current Medicinal Chemistry, 2022, 29, 2751-2845. | 1.2 | 3 |
| 2 | An evaluation of the interaction of pixantrone with formaldehyde-releasing drugs in cancer cells. Cancer Chemotherapy and Pharmacology, 2022, , 1. | 1.1 | 0 |
| 3 | A switch in mechanism of action prevents doxorubicin-mediated cardiac damage. Biochemical Pharmacology, 2021, 185, 114410. | 2.0 | 2 |
| 4 | Comparison of the tissue distribution and metabolism of AN1284, a potent anti-inflammatory agent, after subcutaneous and oral administration in mice. Naunyn-Schmiedeberg's Archives of Pharmacology, 2021, 394, 2077-2089. | 1.4 | 1 |
| 5 | Valproic Acid Prodrug Affects Selective Markers, Augments Doxorubicin Anticancer Activity and Attenuates Its Toxicity in a Murine Model of Aggressive Breast Cancer. Pharmaceuticals, 2021, 14, 1244. | 1.7 | 0 |
| 6 | Cardioprotection by AN-7, a prodrug of the histone deacetylase inhibitor butyric acid: Selective activity in hypoxic cardiomyocytes and cardiofibroblasts. European Journal of Pharmacology, 2020, 882, 173255. | 1.7 | 9 |
| 7 | Conjugate prodrug AN-233 induces fetal hemoglobin expression in sickle erythroid progenitors and Î²-YAC transgenic mice. Blood Cells, Molecules, and Diseases, 2019, 79, 102345. | 0.6 | 10 |
| 8 | Synthesis and Biological Evaluation of Derivatives of Indoline as Highly Potent Antioxidant and Anti-inflammatory Agents. Journal of Medicinal Chemistry, 2018, 61, 4004-4019. | 2.9 | 39 |
| 9 | AN-7, a butyric acid prodrug, sensitizes cutaneous T-cell lymphoma cell lines to doxorubicin via inhibition of DNA double strand breaks repair. Investigational New Drugs, 2018, 36, 1-9. | 1.2 | 14 |
| 10 | Comparison of the anticancer properties of a novel valproic acid prodrug to leading histone deacetylase inhibitors. Journal of Cellular Biochemistry, 2018, 119, 3417-3428. | 1.2 | 15 |
| 11 | Effect of Histone Deacetylase Inhibitor, Butyroyloxymethyl-Diethyl Phosphate (AN-7), on Corneal Neovascularization in a Mouse Model. Journal of Ocular Pharmacology and Therapeutics, 2017, 33, 480-486. | 0.6 | 6 |
| 12 | Effects of histone deacetylase inhibitory prodrugs on epigenetic changes and DNA damage response in tumor and heart of glioblastoma xenograft. Investigational New Drugs, 2017, 35, 412-426. | 1.2 | 8 |
| 13 | Development of GSK's NMR guides â€“ a tool to encourage the use of more sustainable solvents. Green Chemistry, 2016, 18, 3867-3878. | 4.6 | 22 |
| 14 | Bi-functional prodrugs of 5-aminolevulinic acid and butyric acid increase erythropoiesis in anemic mice in an erythropoietin-independent manner. European Journal of Pharmaceutical Sciences, 2016, 91, 91-97. | 1.9 | 5 |
| 15 | The Therapeutic Potential of AN-7, a Novel Histone Deacetylase Inhibitor, for Treatment of Mycosis Fungoides/Sezary Syndrome Alone or with Doxorubicin. PLoS ONE, 2016, 11, e0146115. | 1.1 | 10 |
| 16 | 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. RSC Advances, 2015, 5, 24038-24043. | 1.7 | 4 |
| 17 | Potential Therapeutic Advantages of Doxorubicin when Activated by Formaldehyde to Function as a DNA Adduct-Forming Agent. Current Topics in Medicinal Chemistry, 2015, 15, 1409-1422. | 1.0 | 19 |
| 18 | Department of Chemistry, Bar-Ilan University (BIU). Israel Journal of Chemistry, 2014, 54, 1488-1499. | 1.0 | 2 |

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|---|---|---|---|
| 19 | Synthesis and in vitro evaluation of anti-inflammatory activity of ester and amine derivatives of indoline in RAW 264.7 and peritoneal macrophages. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2283-2287. | 1.0 | 26 |
| 20 | 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. Biochemical Pharmacology, 2014, 88, 158-168. | 2.0 | 17 |
| 21 | The hydroxyl epimer of doxorubicin controls the rate of formation of cytotoxic anthracycline-DNA adducts. Cancer Chemotherapy and Pharmacology, 2013, 71, 809-816. | 1.1 | 9 |
| 22 | Carbamate Derivatives of Indolines as Cholinesterase Inhibitors and Antioxidants for the Treatment of Alzheimerâ€™s Disease. Journal of Medicinal Chemistry, 2012, 55, 10700-10715. | 2.9 | 61 |
| 23 | Activation of DNA damage response pathways as a consequence of anthracycline-DNA adduct formation. Biochemical Pharmacology, 2012, 83, 1602-1612. | 2.0 | 55 |
| 24 | Disparate Impact of Butyroyloxymethyl Diethylphosphate (AN-7), a Histone Deacetylase Inhibitor, and Doxorubicin in Mice Bearing a Mammary Tumor. PLoS ONE, 2012, 7, e31393. | 1.1 | 22 |
| 25 | Multifunctional 5-aminolevulinic acid prodrugs activating diverse cell-death pathways. Investigational New Drugs, 2012, 30, 1028-1038. | 1.2 | 13 |
| 26 | The histone deacetylase inhibitor butyroyloxymethyl diethylphosphate (AN-7) protects normal cells against toxicity of anticancer agents while augmenting their anticancer activity. Investigational New Drugs, 2012, 30, 130-143. | 1.2 | 31 |
| 27 | Modulating ALA-PDT efficacy of mutlidrug resistant MCF-7 breast cancer cells using ALA prodrug. Photochemical and Photobiological Sciences, 2011, 10, 1926-1933. | 1.6 | 31 |
| 28 | Structureâ€“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. European Journal of Medicinal Chemistry, 2011, 46, 447-467. | 2.6 | 13 |
| 29 | NMR Chemical Shifts of Trace Impurities: Common Laboratory Solvents, Organics, and Gases in Deuterated Solvents Relevant to the Organometallic Chemist. Organometallics, 2010, 29, 2176-2179. | 1.1 | 3,142 |
| 30 | ABT-737 overcomes Bcl-2 mediated resistance to doxorubicinâ€“DNA adducts. Biochemical Pharmacology, 2010, 79, 339-349. | 2.0 | 22 |
| 31 | Facile structural elucidation of imidazoles and oxazoles based on NMR spectroscopy and quantum mechanical calculations. Tetrahedron, 2010, 66, 1465-1471. | 1.0 | 12 |
| 32 | New Anthracenedione Derivatives with Improved Biological Activity by Virtue of Stable Drugâ^'DNA Adduct Formation. Journal of Medicinal Chemistry, 2010, 53, 6851-6866. | 2.9 | 21 |
| 33 | Î³-Aminobutyric Acid Amides of Nortriptyline and Fluoxetine Display Improved Pain Suppressing Activity. Journal of Medicinal Chemistry, 2009, 52, 3010-3017. | 2.9 | 13 |
| 34 | BL-1020: A novel antipsychotic drug with GABAergic activity and low catalepsy, is efficacious in a rat model of schizophrenia. European Neuropsychopharmacology, 2009, 19, 1-13. | 0.3 | 32 |
| 35 | Histone deacetylase inhibitors: the anticancer, antimetastatic and antiangiogenic activities of AN-7 are superior to those of the clinically tested AN-9 (Pivanex). Clinical and Experimental Metastasis, 2008, 25, 703-716. | 1.7 | 36 |
| 36 | The cardio-protecting agent and topoisomerase II catalytic inhibitor sobuzoxane enhances doxorubicin-DNA adduct mediated cytotoxicity. Cancer Chemotherapy and Pharmacology, 2008, 61, 739-749. | 1.1 | 35 |

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| 37 | Formaldehyde-releasing prodrugs specifically affect cancer cells by depletion of intracellular glutathione and augmentation of reactive oxygen species. Cancer Chemotherapy and Pharmacology, 2008, 62, 471-482. | 1.1 | 19 |
| 38 | Electrochemical lab on a chip for high-throughput analysis of anticancer drugs efficiency. Nanomedicine: Nanotechnology, Biology, and Medicine, 2008, 4, 121-126. | 1.7 | 30 |
| 39 | Novel Multifunctional Acyloxyalkyl Ester Prodrugs of 5-Aminolevulinic Acid Display Improved Anticancer Activity Independent and Dependent on Photoactivation. Journal of Medicinal Chemistry, 2008, 51, 7356-7369. | 2.9 | 38 |
| 40 | A Mutual Prodrug Ester of GABA and Perphenazine Exhibits Antischizophrenic Efficacy with Diminished Extrapyramidal Effects. Journal of Medicinal Chemistry, 2008, 51, 2858-2862. | 2.9 | 24 |
| 41 | Novel Prodrugs of Tegafur that Display Improved Anticancer Activity and Antiangiogenic Properties. Journal of Medicinal Chemistry, 2008, 51, 314-323. | 2.9 | 21 |
| 42 | In vivo efficacy of a novel histone deacetylase inhibitor in combination with radiation for the treatment of gliomas1. Neuro-Oncology, 2007, 9, 82-88. | 0.6 | 47 |
| 43 | Light-Sensitive Protecting Groups for Amines and Alcohols: The Photosolvolysis of N-Substituted 7-Nitroindolines. Synlett, 2007, 2007, 2405-2409. | 1.0 | 18 |
| 44 | Activation of clinically used anthracyclines by the formaldehyde-releasing prodrug pivaloyloxymethyl butyrate. Molecular Cancer Therapeutics, 2007, 6, 1450-1459. | 1.9 | 17 |
| 45 | AN-113, a novel prodrug of 4-phenylbutyrate with increased anti-neoplastic activity in glioma cell lines. Cancer Letters, 2007, 253, 205-214. | 3.2 | 11 |
| 46 | The anticancer prodrugs of butyric acid AN-7 and AN-9, possess antiangiogenic properties. Cancer Letters, 2007, 256, 39-48. | 3.2 | 34 |
| 47 | De NovoParallel Design, Synthesis and Evaluation of Inhibitors against the Reverse Transcriptase of Human Immunodeficiency Virus Type-1 and Drug-Resistant Variants. Journal of Medicinal Chemistry, 2007, 50, 2370-2384. | 2.9 | 34 |
| 48 | Hydroxy-1-aminoindans and Derivatives:Â Preparation, Stability, and Reactivity. Journal of Organic Chemistry, 2006, 71, 4130-4140. | 1.7 | 26 |
| 49 | The selectivty and anti-metastatic activity of oral bioavailable butyric acid prodrugs. Investigational New Drugs, 2006, 24, 383-392. | 1.2 | 34 |
| 50 | Mode of interaction between butyroyloxymethyl-diethyl phosphate (AN-7) and doxorubicin in MCF-7 and resistant MCF-7/Dx cell lines. Journal of Cancer Research and Clinical Oncology, 2006, 132, 673-683. | 1.2 | 27 |
| 51 | Doxorubicin-DNA Adducts Induce a Non-Topoisomerase IIâ€“Mediated Form of Cell Death. Cancer Research, 2006, 66, 4863-4871. | 0.4 | 250 |
| 52 | In vivo andin vitro antitumor activity of butyroyloxymethyl-diethyl phosphate (AN-7), a histone deacetylase inhibitor, in human prostate cancer. International Journal of Cancer, 2005, 116, 226-235. | 2.3 | 39 |
| 53 | Butyric acid prodrugs are histone deacetylase inhibitors that show antineoplastic activity and radiosensitizing capacity in the treatment of malignant gliomas. Molecular Cancer Therapeutics, 2005, 4, 1952-1961. | 1.9 | 74 |
| 54 | The Role of Intracellularly Released Formaldehyde and Butyric Acid in the Anticancer Activity of Acyloxyalkyl Esters. Journal of Medicinal Chemistry, 2005, 48, 1042-1054. | 2.9 | 51 |

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| 55 | An Improved Synthesis of Hydroxyindoles. Synthesis, 2004, 2004, 3043-3046. | 1.2 | 6 |
| 56 | Inhibitors of biotin biosynthesis as potential herbicides. Tetrahedron, 2004, 60, 1731-1748. | 1.0 | 23 |
| 57 | Mitoxantrone Mediates Demethylation and Re-Expression of Cyclin D2, Estrogen Receptor 14.3.3 Sigma In Breast Cancer Cells. Cancer Biology and Therapy, 2003, 2, 259-263. | 1.5 | 27 |
| 58 | Activation of adriamycin by the pH-dependent formaldehyde-releasing prodrug hexamethylenetetramine. Molecular Cancer Therapeutics, 2003, 2, 189-98. | 1.9 | 22 |
| 59 | Sequence specificity of adriamycin-DNA adducts in human tumor cells. Molecular Cancer Therapeutics, 2003, 2, 661-70. | 1.9 | 34 |
| 60 | A retinoid/butyric acid prodrug overcomes retinoic acid resistance in leukemias by induction of apoptosis. Molecular Cancer Research, 2003, 1, 903-12. | 1.5 | 11 |
| 61 | The histone deacetylase inhibitor AN-9 has selective toxicity to acute leukemia and drug-resistant primary leukemia and cancer cell lines. Blood, 2002, 100, 3319-3324. | 0.6 | 70 |
| 62 | Cinnamic acid derived oxazolinium ions as novel cytotoxic agents. European Journal of Medicinal Chemistry, 2002, 37, 607-616. | 2.6 | 15 |
| 63 | Prodrugs of butyric acid. Novel derivatives possessing increased aqueous solubility and potential for treating cancer and blood diseases. European Journal of Medicinal Chemistry, 2001, 36, 63-74. | 2.6 | 64 |
| 64 | From Amino Acids to Fused Chiral Pyrrolidines and Piperidines via the INOC Route. European Journal of Organic Chemistry, 2000, 2000, 645-655. | 1.2 | 14 |
| 65 | Prodrugs of butyric acid from bench to bedside: Synthetic design, mechanisms of action, and clinical applications. Drug Development Research, 2000, 50, 379-391. | 1.4 | 67 |
| 66 | Uptake of pivaloyloxymethyl butyrate into leukemic cells and its intracellular esterase-catalyzed hydrolysis. Journal of Cancer Research and Clinical Oncology, 2000, 126, 693-698. | 1.2 | 18 |
| 67 | Novel Mutual Prodrug of Retinoic and Butyric Acids with Enhanced Anticancer Activity. Journal of Medicinal Chemistry, 2000, 43, 2962-2966. | 2.9 | 41 |
| 68 | Convenient Syntheses of Î´-Aminolevulinic Acid. Synthesis, 1999, 1999, 568-570. | 1.2 | 8 |
| 69 | IOOC Route to Substituted Chiral Pyrrolidines. Potential Glycosidase Inhibitors. Journal of Organic Chemistry, 1999, 64, 498-506. | 1.7 | 37 |
| 70 | Ethers. Synthetic Communications, 1999, 29, 1405-1408. | 1.1 | 10 |
| 71 | Synthetic Communications, 1998, 28, 471-474. | 1.1 | 90 |
| 72 | The Synthesis of the Vitamers of Biotin. Bioorganic Chemistry, 1998, 26, 157-168. | 2.0 | 11 |

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| 73 | NMR Chemical Shifts of Common Laboratory Solvents as Trace Impurities. Journal of Organic Chemistry, 1997, 62, 7512-7515. | 1.7 | 3,270 |
| 74 | Effect of the cytostatic butyric acid pro-drug, pivaloyloxymethyl butyrate, on the tumorigenicity of cancer cells. Journal of Cancer Research and Clinical Oncology, 1997, 123, 267-271. | 1.2 | 17 |
| 75 | Butyric acid and pivaloyloxymethyl butyrate, AN-9, a novel butyric acid derivative, induce apoptosis in HL-60 cells. Journal of Cancer Research and Clinical Oncology, 1997, 123, 152-160. | 1.2 | 34 |
| 76 | 330, 285-289. | 2.1 | 4 |
| 77 | Butyric acid and pivaloyloxymethyl butyrate, AN-9, a novel butyric acid derivative, induce apoptosis in HL-60 cells. Journal of Cancer Research and Clinical Oncology, 1997, 123, 152-160. | 1.2 | 2 |
| 78 | Effect of the cytostatic butyric acid pro-drug, pivaloyloxymethyl butyrate, on the tumorigenicity of cancer cells. Journal of Cancer Research and Clinical Oncology, 1997, 123, 267-271. | 1.2 | 2 |
| 79 | On the Stabilization of theSyn-Rotamer of Amino Acid Carbamate Derivatives by Hydrogen Bonding. Journal of Organic Chemistry, 1996, 61, 8402-8406. | 1.7 | 66 |
| 80 | â€œVinylogsâ€•and â€œAcetylenylogsâ€•of Î²-Adrenergic Agents. Archiv Der Pharmazie, 1996, 329, 125-132. | 2.1 | 5 |
| 81 | Î±-1-Tributyltin-O-2,3-bisacetyl-4,6-ethylidene-glucose as a convenient glycosidation reagent: An efficient synthesis of etoposide. Tetrahedron, 1996, 52, 3049-3056. | 1.0 | 16 |
| 82 | Comparison between the effect of butyric acid and its prodrug pivaloyloxymethylbutyrate on histones hyperacetylation in an HL-60 leukemic cell line. International Journal of Cancer, 1994, 56, 906-909. | 2.3 | 50 |
| 83 | Hypoxic Radiosensitizers: Substituted Styryl Derivatives. Archiv Der Pharmazie, 1994, 327, 619-625. | 2.1 | 4 |
| 84 | Utilization of L-serine in an oxime olefin cycloaddition route to a functionalized asymmetric pyrrolidine, a selective Î±-glucosidase inhibitor. Tetrahedron Letters, 1994, 35, 2397-2400. | 0.7 | 38 |
| 85 | Approaches to Mutual Prodrugs: Calcium - Î²-Blockers. Archiv Der Pharmazie, 1993, 326, 907-909. | 2.1 | 4 |
| 86 | Rapid alteration of c-mycand c-junexpression in leukemic cells induced to differentiate by a butyric acid prodrug. FEBS Letters, 1993, 328, 225-229. | 1.3 | 49 |
| 87 | A Convenient Synthesis of Chiral Oxazolidin-2-Ones and Thiazolidin-2-Ones and an Improved Preparation of Triphosgene. Synthetic Communications, 1993, 23, 2839-2844. | 1.1 | 44 |
| 88 | Novel anticancer prodrugs of butyric acid. 2. Journal of Medicinal Chemistry, 1992, 35, 687-694. | 2.9 | 89 |
| 89 | Enol oxalacetic acid exists in the Z form in the crystalline state and in solution. Journal of Organic Chemistry, 1992, 57, 7270-7274. | 1.7 | 14 |
| 90 | Derivatives of butyric acid as potential anti-neoplastic agents. International Journal of Cancer, 1991, 49, 66-72. | 2.3 | 95 |

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| 91 | Archiv Der Pharmazie, 1990, 323, 229-233. | 2.1 | 2 |
| 92 | Methanolysis of acetylated sugars and glycosides in the presence of tin oxides and alkoxides. Carbohydrate Research, 1988, 177, 21-28. | 1.1 | 15 |
| 93 | Selective deacetylation of anomeric sugar acetates with tin alkoxides. Carbohydrate Research, 1987, 162, 145-152. | 1.1 | 73 |
| 94 | Studies in ranitidine chemistry: an unusual oxygen .fwdarw. nitrogen methyl migration. Journal of Organic Chemistry, 1986, 51, 730-732. | 1.7 | 11 |
| 95 | Studies in sugar chemistry. 2. A simple method for O-deacylation of polyacylated sugars. Journal of Organic Chemistry, 1986, 51, 727-730. | 1.7 | 109 |
| 96 | Regioselective heterogeneous O-deacylation of polyacylated sugars. Carbohydrate Research, 1986, 153, 162-167. | 1.1 | 26 |
| 97 | Organotin nucleophiles. 6. Palladium-catalyzed allylic etherification with tin alkoxides. Journal of Organic Chemistry, 1985, 50, 3558-3566. | 1.7 | 87 |
| 98 | A novel method for stereoselective glucuronidation. Journal of Organic Chemistry, 1984, 49, 4988-4993. | 1.7 | 63 |
| 99 | Rearrangements of penicillin sulfoxides. 2. Spectral data and x-ray crystallography of the novel imidazo[5,1-c][1,4]thiazine ring system. Journal of Organic Chemistry, 1981, 46, 3026-3029. | 1.7 | 10 |
| 100 | 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.. Journal of Antibiotics, 1980, 33, 76-82. | 1.0 | 2 |
| 101 | The Chemistry of Optically Active Sulfur Compounds-Part IV. Phosphorous and Sulfur and the Related Elements, 1980, 9, 1-79. | 0.2 | 11 |
| 102 | Rearrangements of penicillin sulfoxides. 1. Journal of Organic Chemistry, 1977, 42, 2887-2890. | 1.7 | 6 |
| 103 | THE CHEMISTRY OF OPTICALLY ACTIVE SULFUR COMPOUNDS PART III. Phosphorous and Sulfur and the Related Elements, 1976, 2, 51-94. | 0.2 | 13 |
| 104 | Water-Soluble Derivatives of 3-Oxy-substituted 1,4-Benzodiazepines. Journal of Pharmaceutical Sciences, 1974, 63, 1880-1885. | 1.6 | 22 |
| 105 | Stereochemistry of sulfur compounds. II. New reactions at chiral sulfur that complete the first monoligostatic stereochemical reaction cycle. Journal of the American Chemical Society, 1972, 94, 4684-4691. | 6.6 | 33 |
| 106 | Stereochemical reaction cycle with chiral phosphorus. Journal of Organic Chemistry, 1971, 36, 335-337. | 1.7 | 22 |
| 107 | Enthalpies of transfer of transition states in the Menshutkin reaction from a polar protic to a dipolar aprotic solvent. Journal of Organic Chemistry, 1971, 36, 1792-1795. | 1.7 | 48 |
| 108 | Unusual condensation-ring closure reaction [forming cyclopropyl sulfoxides]. Journal of Organic Chemistry, 1969, 34, 3659-3661. | 1.7 | 5 |

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| 109 | The stereochemical course of ester-amide interchange leading to optically active phosphinic and sulfinic amides. Journal of the American Chemical Society, 1968, 90, 3869-3870. | 6.6 | 49 |
| 110 | Sulfinic acids and their derivatives. Stereochemistry and chiroptical properties. , 0, , 35-85. | | 3 |