# Gennaro Piccialli

List of Publications by Year
in descending order



| 129 | 2,319 | 186265 | 315739 |
|---|---|---|---|
| papers | citations | 28 h-index | 38 g-index |

| 136 | 136 | 136 | 2071 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Exploring a peptide nucleic acid-based antisense approach for CD5 targeting in chronic lymphocytic leukemia. PLoS ONE, 2022, 17, e0266090. | 2.5 | 5 |
| 2 | Nucleoside Analogs and Nucleoside Precursors as Drugs in the Fight against SARS-CoV-2 and Other Coronaviruses. Molecules, 2021, 26, 986. | 3.8 | 60 |
| 3 | Silver (I) N-Heterocyclic Carbene Complexes: A Winning and Broad Spectrum of Antimicrobial Properties. International Journal of Molecular Sciences, 2021, 22, 2497. | 4.1 | 21 |
| 4 | Transcriptomics and Metabolomics Integration Reveals Redox-Dependent Metabolic Rewiring in Breast Cancer Cells. Cancers, 2021, 13, 5058. | 3.7 | 10 |
| 5 | Synthesis, self-assembly-behavior and biomolecular recognition properties of thyminyl dipeptides. Arabian Journal of Chemistry, 2020, 13, 1966-1974. | 4.9 | 18 |
| 6 | From computational genomics to systems metabolomics for precision cancer medicine and drug discovery. Pharmacological Research, 2020, 151, 104479. | 7.1 | 1 |
| 7 | PNA-Based Graphene Oxide/Porous Silicon Hybrid Biosensor: Towards a Label-Free Optical Assay for Brugada Syndrome. Nanomaterials, 2020, 10, 2233. | 4.1 | 10 |
| 8 | Probing the DNA Reactivity and the Anticancer Properties of a Novel Tubercidin-Pt(II) Complex. Pharmaceutics, 2020, 12, 627. | 4.5 | 6 |
| 9 | Ï€â€“Ï€ stacked DNA G-wire nanostructures formed by a short G-rich oligonucleotide containing a 3â€²â€“3â€² inversion of polarity site. Organic Chemistry Frontiers, 2020, 7, 2187-2195. | 4.5 | 8 |
| 10 | Evaluation of an Analogue of the Marine Îµ-PLL Peptide as a Ligand of G-quadruplex DNA Structures. Marine Drugs, 2020, 18, 49. | 4.6 | 24 |
| 11 | Endogenous and artificial miRNAs explore a rich variety of conformations: a potential relationship between secondary structure and biological functionality. Scientific Reports, 2020, 10, 453. | 3.3 | 7 |
| 12 | New Linear Precursors of cIDPR Derivatives as Stable Analogs of cADPR: A Potent Second Messenger with Ca2+-Modulating Activity Isolated from Sea Urchin Eggs. Marine Drugs, 2019, 17, 476. | 4.6 | 6 |
| 13 | Porous Silicon-Based Aptasensors: The Next Generation of Label-Free Devices for Health Monitoring. Molecules, 2019, 24, 2216. | 3.8 | 25 |
| 14 | New G-Quadruplex-Forming Oligodeoxynucleotides Incorporating a Bifunctional Double-Ended Linker (DEL): Effects of DEL Size and ODNs Orientation on the Topology, Stability, and Molecularity of DEL-G-Quadruplexes. Molecules, 2019, 24, 654. | 3.8 | 7 |
| 15 | Peptide Nucleic Acid-Functionalized Adenoviral Vectors Targeting G-Quadruplexes in the P1 Promoter of Bcl-2 Proto-Oncogene: A New Tool for Gene Modulation in Anticancer Therapy. Bioconjugate Chemistry, 2019, 30, 572-582. | 3.6 | 25 |
| 16 | Anti-HIV activity of new higher order G-quadruplex aptamers obtained from tetra-end-linked oligonucleotides. Organic and Biomolecular Chemistry, 2018, 16, 2349-2355. | 2.8 | 16 |
| 17 | Synthesis and Biological Evaluation of a New Structural Simplified Analogue of cADPR, a Calcium-Mobilizing Secondary Messenger Firstly Isolated from Sea Urchin Eggs. Marine Drugs, 2018, 16, 89. | 4.6 | 10 |
| 18 | Design, Synthesis and Characterization of Novel Co-Polymers Decorated with Peptides for the Selective Nanoparticle Transport across the Cerebral Endothelium. Molecules, 2018, 23, 1655. | 3.8 | 18 |

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| 19 | Studies toward the Synthesis of Smenamide A, an Antiproliferative Metabolite from Smenospongia aurea: Total Synthesis of ent-Smenamide A and 16-epi-Smenamide A. ACS Omega, 2017, 2, 1477-1488. | 3.5 | 19 |
| 20 | Stabilization vs. destabilization of G-quadruplex superstructures: the role of the porphyrin derivative having spermine arms. Physical Chemistry Chemical Physics, 2017, 19, 17404-17410. | 2.8 | 15 |
| 21 | Synthesis and label free characterization of a bimolecular PNA homo quadruplex. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1222-1228. | 2.4 | 8 |
| 22 | Selfâ€Assembly of Gâ€Rich Oligonucleotides Incorporating a 3â€²â€“3â€² Inversion of Polarity Site: A New Route Towards Gâ€Wire DNA Nanostructures. ChemistryOpen, 2017, 6, 599-605. | 1.9 | 24 |
| 23 | Peptide Nucleic Acids as miRNA Target Protectors for the Treatment of Cystic Fibrosis. Molecules, 2017, 22, 1144. | 3.8 | 29 |
| 24 | 5-Amino-1-(2â€²,3â€²-O-isopropylidene-<scp>D</scp>-ribityl)-1H-imidazole-4-carboxamide: a crystal structure withZâ€² = 4. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 183-187. | 0.5 | 1 |
| 25 | Nanogravimetric and Optical Characterizations of Thrombin Interaction with a Self-Assembled Thiolated Aptamer. Journal of Sensors, 2016, 2016, 1-8. | 1.1 | 8 |
| 26 | Solid phase synthesis of a thrombin binding aptamer on macroporous silica for label free optical quantification of thrombin. RSC Advances, 2016, 6, 86762-86769. | 3.6 | 39 |
| 27 | Degradation of some representative polycyclic aromatic hydrocarbons by the water-soluble protein extracts from Zea mays L. cv PR32-B10. Chemosphere, 2016, 160, 258-265. | 8.2 | 5 |
| 28 | Screening Platform toward New Anti-HIV Aptamers Set on Molecular Docking and Fluorescence Quenching Techniques. Analytical Chemistry, 2016, 88, 2327-2334. | 6.5 | 18 |
| 29 | New synthetic AICAR derivatives with enhanced AMPK and ACC activation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 748-753. | 5.2 | 15 |
| 30 | Synthesis and Evaluation of the Antiproliferative Properties of a Tethered Tubercidinâ€“Platinum(II) Complex. European Journal of Organic Chemistry, 2015, 2015, 7550-7556. | 2.4 | 6 |
| 31 | Synthesis of 5â€Aminoimidazoleâ€4â€Carboxamide Riboside (AICAR) and Its Derivatives Using Inosine as Starting Material. Current Protocols in Nucleic Acid Chemistry, 2015, 63, 1.35.1-1.35.24. | 0.5 | 3 |
| 32 | Exploitation of a Very Small Peptide Nucleic Acid as a New Inhibitor of miR-509-3p Involved in the Regulation of Cystic Fibrosis Disease-Gene Expression. BioMed Research International, 2014, 2014, 1-10. | 1.9 | 45 |
| 33 | Outstanding effects on antithrombin activity of modified TBA diastereomers containing an optically pure acyclic nucleotide analogue. Organic and Biomolecular Chemistry, 2014, 12, 5235-5242. | 2.8 | 27 |
| 34 | Design, synthesis and biochemical investigation, by in vitro luciferase reporter system, of peptide nucleic acids as new inhibitors of miR-509-3p involved in the regulation of cystic fibrosis disease-gene expression. MedChemComm, 2014, 5, 68-71. | 3.4 | 16 |
| 35 | Aminosilane-modified mesoporous oxidized silicon for in situ oligonucleotides synthesis and detection. , 2014, , . | | 0 |
| 36 | Synthesis of mixed-sequence oligonucleotides on mesoporous silicon: chemical strategies and material stability. Nanoscale Research Letters, 2014, 9, 317. | 5.7 | 9 |

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| 37 | DNA-based nanostructures: The effect of the base sequence on octamer formation from d(XGGYGGT) tetramolecular G-quadruplexes. Biochimie, 2014, 99, 119-128. | 2.6 | 20 |
| 38 | Synthesis of 2,6â€Dialkyl(aryl)purine Nucleosides by Exploiting the Reactivity of Nebularine N1â€Oxide towards Grignard Reagents. European Journal of Organic Chemistry, 2013, 2013, 6948-6954. | 2.4 | 7 |
| 39 | PNA as a potential modulator of COL7A1 gene expression in dominant dystrophic epidermolysis bullosa: a physico-chemical study. Molecular BioSystems, 2013, 9, 3166. | 2.9 | 9 |
| 40 | Aminosilane functionalizations of mesoporous oxidized silicon for oligonucleotide synthesis and detection. Journal of the Royal Society Interface, 2013, 10, 20130160. | 3.4 | 60 |
| 41 | Synthesis of New Acadesine (AICA-riboside) Analogues Having Acyclic d-Ribityl or 4-Hydroxybutyl Chains in Place of the Ribose. Molecules, 2013, 18, 9420-9431. | 3.8 | 12 |
| 42 | Investigating the Role of T<sub>7</sub> and T<sub>12</sub> Residues on the Biological Properties of Thrombin-Binding Aptamer: Enhancement of Anticoagulant Activity by a Single Nucleobase Modification. Journal of Medicinal Chemistry, 2012, 55, 10716-10728. | 6.4 | 42 |
| 43 | Synthesis and biological evaluation of unprecedented ring-expanded nucleosides (RENs) containing the imidazo[4,5-d][1,2,6]oxadiazepine ring system. Chemical Communications, 2012, 48, 9310. | 4.1 | 33 |
| 44 | New anti-HIV aptamers based on tetra-end-linked DNA G-quadruplexes: effect of the base sequence on anti-HIV activity. Chemical Communications, 2012, 48, 9516. | 4.1 | 31 |
| 45 | G-Quadruplex-Forming Oligonucleotide Conjugated to Magnetic Nanoparticles: Synthesis, Characterization, and Enzymatic Stability Assays. Bioconjugate Chemistry, 2012, 23, 382-391. | 3.6 | 27 |
| 46 | A Facile Synthesis of 5'-Fluoro-5'-deoxyacadesine (5'-F-AICAR): A Novel Non-phosphorylable AICAR Analogue. Molecules, 2012, 17, 13036-13044. | 3.8 | 30 |
| 47 | Targeting G-Quadruplex Structure in the Human c-Kit Promoter with Short PNA Sequences. Bioconjugate Chemistry, 2011, 22, 654-663. | 3.6 | 45 |
| 48 | Label-Free Probing of G-Quadruplex Formation by Surface-Enhanced Raman Scattering. Analytical Chemistry, 2011, 83, 6849-6855. | 6.5 | 56 |
| 49 | Solid-Phase Synthesis of a New Diphosphate 5-Aminoimidazole-4-carboxamide Riboside (AICAR) Derivative and Studies toward Cyclic AICAR Diphosphate Ribose. Molecules, 2011, 16, 8110-8118. | 3.8 | 20 |
| 50 | Solid-phase synthesis and pharmacological evaluation of novel nucleoside-tethered dinuclear platinum(II) complexes. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5835-5838. | 2.2 | 15 |
| 51 | Probing the reactivity of nebularine N1-oxide. A novel approach to C-6 C-substituted purine nucleosides. Tetrahedron, 2011, 67, 6138-6144. | 1.9 | 18 |
| 52 | d(CGGTGGT) forms an octameric parallel G-quadruplex via stacking of unusual G(:C):G(:C):G(:C):G(:C) octads. Nucleic Acids Research, 2011, 39, 7848-7857. | 14.5 | 42 |
| 53 | Facile Solidâ€Phase Synthesis of AICAR 5â€²â€Monophosphate (ZMP) and Its 4â€Nâ€Alkyl Derivatives. European Journal of Organic Chemistry, 2010, 2010, 1517-1524. | 2.4 | 31 |
| 54 | A solid-phase approach to the synthesis of N-1-alkyl analogues of cyclic inosine-diphosphate-ribose (cIDPR). Tetrahedron, 2010, 66, 1931-1936. | 1.9 | 30 |

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| 55 | Direct Synthesis of Oligonucleotides on Nanostructured Silica Multilayers. Journal of Physical Chemistry C, 2010, 114, 2617-2621. | 3.1 | 14 |
| 56 | Tetra-end-linked oligonucleotides forming DNA G-quadruplexes: a new class of aptamers showing anti-HIV activity. Chemical Communications, 2010, 46, 8971. | 4.1 | 39 |
| 57 | Synthesis of quadruplexâ€forming tetraâ€endâ€linked oligonucleotides: Effects of the linker size on quadruplex topology and stability. Biopolymers, 2009, 91, 466-477. | 2.4 | 31 |
| 58 | Evidences for complex formation between l-dabPNA and aegPNA. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 4757-4760. | 2.2 | 7 |
| 59 | Synthesis of 4-N-alkyl and ribose-modified AICAR analogues on solid support. Tetrahedron, 2008, 64, 6475-6481. | 1.9 | 34 |
| 60 | Oligonucleotides direct synthesis on porous silicon chip. Nucleic Acids Symposium Series, 2008, 52, 721-722. | 0.3 | 1 |
| 61 | Synthesis and Characterization of Tetra-End Linked Oligonucleotides Capable of Forming Monomolecular G-Quadruplexes. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1231-1236. | 1.1 | 0 |
| 62 | Optical Tweezers as a Probe for Oligodeoxyribonucleotide Structuration. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1295-1299. | 1.1 | 0 |
| 63 | Synthesis of A New Ribose Modified Analogue of Cyclic Inosine Diphosphate Ribose. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1321-1324. | 1.1 | 2 |
| 64 | Physico-chemical analysis of G-quadruplex containing bunch-oligonucleotides. International Journal of Biological Macromolecules, 2007, 40, 242-247. | 7.5 | 4 |
| 65 | Solid Phase Synthesis of Nucleobase and Ribose Modified Inosine Nucleoside Analogues. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1649-1652. | 1.1 | 6 |
| 66 | Synthesis of N-1 and ribose modified inosine analogues on solid support. Tetrahedron Letters, 2007, 48, 397-400. | 1.4 | 34 |
| 67 | Synthesis and Characterization of Monomolecular DNA G-Quadruplexes Formed by Tetra-End-Linked Oligonucleotides. Bioconjugate Chemistry, 2006, 17, 889-898. | 3.6 | 28 |
| 68 | Synthesis and characterization of DNA quadruplexes containing T-tetrads formed by bunch-oligonucleotides. Biopolymers, 2006, 81, 194-201. | 2.4 | 22 |
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| 71 | Reactions of Pd(PPh3)4with 3â€˜,5â€˜-Di-O-acetylthymidine:Â Oxidative Addition of Pd(PPh3)4on Thymidine N3 and C4 Atoms. Organometallics, 2005, 24, 3401-3406. | 2.3 | 12 |
| 72 | Thermodynamics and Kinetics of PNAâ˜DNA Quadruplex-Forming Chimeras. Journal of the American Chemical Society, 2005, 127, 16215-16223. | 13.7 | 44 |

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| 73 | UNUSUAL MONOMOLECULAR DNA QUADRUPLEX STRUCTURES USING BUNCH-OLIGONUCLEOTIDES. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 739-741. | 1.1 | 1 |
| 74 | SYNTHESIS OF A NEW N-9 RIBITYL ANALOGUE OF CYCLIC INOSINE DIPHOSPHATE RIBOSE (cIDPR) AS A MIMIC OF CYCLIC ADP RIBOSE (cADPR). Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 735-738. | 1.1 | 4 |
| 75 | In-water reactivity of nucleosides and nucleotides: one-step preparation and biological evaluation of novel ferrocenyl-derivatives. Tetrahedron, 2004, 60, 6555-6563. | 1.9 | 23 |
| 76 | Targeting duplex DNA with DNA-PNA chimeras? Physico-chemical characterization of a triplex DNA-PNA/DNA/DNA. Biopolymers, 2004, 73, 434-442. | 2.4 | 6 |
| 77 | Synthesis of 3â€²â^'3â€²-Linked Pyrimidine Oligonucleotides Containing an Acridine Moiety for Alternate Strand Triple Helix Formation. European Journal of Organic Chemistry, 2004, 2004, 2331-2336. | 2.4 | 6 |
| 78 | Synthesis and characterization of a bunchy oligonucleotide forming a monomolecular parallel quadruplex structure in solution. Tetrahedron Letters, 2004, 45, 4869-4872. | 1.4 | 29 |
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| 81 | Excess electron transfer in G-quadruplex. Chemical Communications, 2004, , 1756-1757. | 4.1 | 17 |
| 82 | Synthesis and Structural Characterization of PNA-DNA Quadruplex-Forming Chimeras. European Journal of Organic Chemistry, 2003, 2003, 3364-3371. | 2.4 | 8 |
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| 86 | New Solid Supports Linking Nucleoside Scaffolds. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 695-697. | 1.1 | 4 |
| 87 | Synthesis and DNA Binding Properties of DNA-PNA Chimeras. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1089-1091. | 1.1 | 4 |
| 88 | Cyclic Uridine Diphosphate Glucose: A New Pyrimidine Analog of Cyclic ADP Ribose. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 663-666. | 1.1 | 3 |
| 89 | Synthesis of a New N1-Pentyl Analogue of Cyclic Inosine Diphosphate Ribose (cIDPR) as a Stable Potential Mimic of Cyclic ADP Ribose (cADPR). European Journal of Organic Chemistry, 2002, 2002, 4234-4238. | 2.4 | 15 |
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| 91 | Solid phase synthesis of oligonucleotides tethered to oligo-glucose phosphate tails. Tetrahedron, 2002, 58, 6697-6704. | 1.9 | 32 |
| 92 | Synthesis of a novel N-1 carbocyclic, N-9 butyl analogue of cyclic ADP ribose (cADPR). Tetrahedron, 2002, 58, 363-368. | 1.9 | 29 |
| 93 | Fully automated synthesis of peptide-oligonucleotide conjugates. , 2002, , 784-785. | | 0 |
| 94 | Physico-chemical studies on DNA triplexes containing an alternate third strand with a non-nucleotide linker. International Journal of Biological Macromolecules, 2001, 28, 387-394. | 7.5 | 5 |
| 95 | New nucleoside based solid supports. Synthesis of 5â€²,3â€²-derivatized thymidine analoguesElectronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b1/b107200p/. Chemical Communications, 2001, , 2598-2599. | 4.1 | 16 |
| 96 | Solid phase synthesis of DNA-3â€²-PNA chimeras by using Bhoc/Fmoc PNA monomers. Tetrahedron, 2001, 57, 9481-9486. | 1.9 | 16 |
| 97 | Oligonucleotides containing a lysine residue as 3â€²â€“3â€² junction for alternate strand triple helix formation. Bioorganic and Medicinal Chemistry, 2001, 9, 2895-2900. | 3.0 | 1 |
| 98 | Solid-Phase Synthesis of Glyco-Oligonucleotide Conjugates. Synlett, 2001, 2001, 0745-0748. | 1.8 | 13 |
| 99 | A Facile Solid-Phase Strategy for the Synthesis of Oligonucleotide-Tetraphenylporphyrin Conjugates. European Journal of Organic Chemistry, 2000, 2000, 1013-1018. | 2.4 | 9 |
| 100 | Studies toward the Synthesis of Pinolidoxin, a Phytotoxic Nonenolide from the FungusAscochytapinodes. Determination of the Configuration at the C-7, C-8, and C-9 Chiral Centers and Stereoselective Synthesis of the C6â˜’C18Fragment. Journal of Organic Chemistry, 2000, 65, 3432-3442. | 3.2 | 27 |
| 101 | Hydrolysis of oleuropein by recombinant Î²-glycosidase from hyperthermophilic archaeon Sulfolobus solfataricus immobilised on chitosan matrix. Journal of Biotechnology, 2000, 77, 275-286. | 3.8 | 67 |
| 102 | Solid phase glycosidation of oligonucleotides. Tetrahedron Letters, 1999, 40, 2607-2610. | 1.4 | 31 |
| 103 | Synthesis and characterization of new 3â€²-3â€² linked oligodeoxyribonucleotides for alternate strand triple helix formation. Tetrahedron, 1999, 55, 9899-9914. | 1.9 | 16 |
| 104 | A new ferrocenemethyl-thymidine nucleoside: Synthesis, incorporation into oligonucleotides and optical spectroscopic studies on the resulting single strand, duplex and triplex structures. Tetrahedron, 1999, 55, 14435-14450. | 1.9 | 37 |
| 105 | A new solid-phase synthesis of oligonucleotides 3â€²-conjugated with peptides. Bioorganic and Medicinal Chemistry, 1999, 7, 395-400. | 3.0 | 32 |
| 106 | Thermodynamics of a 24-Mer Triple Helix Formation and Stability. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1999, 56, 1177-1184. | 1.4 | 8 |
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| 110 | 1-Substituted 2â€²-deoxyinosine analogues. Journal of the Chemical Society Perkin Transactions 1, 1997, , 2079-2082. | 0.9 | 31 |
| 111 | Identification of the Active Site Nucleophile in the Thermostable Î²-Glycosidase from the ArchaeonSulfolobus solfataricusExpressed inEscherichia coliâ€. Biochemistry, 1997, 36, 3068-3075. | 2.5 | 28 |
| 112 | Synthesis and Triple Helix Formation by Alternate Strand Recognition of Oligonucleotides Containing 3â€˜-3â€˜ Phosphodiester Bonds. Journal of Organic Chemistry, 1997, 62, 9024-9030. | 3.2 | 20 |
| 113 | Solid phase synthesis of oligosaccharides. Tetrahedron Letters, 1996, 37, 5007-5010. | 1.4 | 51 |
| 114 | Automated solid phase synthesis of cyclic oligonucleotides: a further improvement. Bioorganic and Medicinal Chemistry, 1995, 3, 1325-1329. | 3.0 | 22 |
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| 116 | Synthesis of [1-15N]-Labeled 2'-Deoxyinosine and 2'-Deoxyadenosine. Journal of Organic Chemistry, 1995, 60, 2251-2253. | 3.2 | 27 |
| 117 | Interaction of the High-Affinity Inhibitor Tetrahydro-Dump with the Allosteric Enzyme Deoxycytidylate Aminohydrolase. Archives of Biochemistry and Biophysics, 1994, 310, 49-53. | 3.0 | 0 |
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| 126 | Solid phase synthesis of 5'-phosphate labelled polynucleotides. Tetrahedron, 1988, 44, 215-220. | 1.9 | 3 |

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| 128 | Synthesis of novel pyrimidine nucleoside analogues. Journal of Heterocyclic Chemistry, 1986, 23, 1401-1403. | 2.6 | 18 |
| 129 | Use of fast protein liquid chromatography for the purification of synthetic oligonucleotides. Journal of Chromatography A, 1985, 329, 406-414. | 3.7 | 22 |