

Prabhat Arya

List of Publications by Year in descending order

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70
papers

2,565
citations

257450

24
h-index

197818

49
g-index

80
all docs

80
docs citations

80
times ranked

2131
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydroformylation Reactions with Rhodium-Complexed Dendrimers on Silica. <i>Journal of the American Chemical Society</i> , 1999, 121, 3035-3038.	13.7	215
2	Advances in Asymmetric Enolate Methodology. <i>Tetrahedron</i> , 2000, 56, 917-947.	1.9	210
3	Diversity-Based Organic Synthesis in the Era of Genomics and Proteomics. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 339-346.	13.8	199
4	Advances in Solution- and Solid-Phase Synthesis toward the Generation of Natural Product-like Libraries. <i>Chemical Reviews</i> , 2009, 109, 1999-2060.	47.7	166
5	Exploring New Chemical Space by Stereocontrolled Diversity-Oriented Synthesis. <i>Chemistry and Biology</i> , 2005, 12, 163-180.	6.0	128
6	Carbonylation Reactions of Iodoarenes with PAMAM Dendrimer-Palladium Catalysts Immobilized on Silica. <i>Journal of Organic Chemistry</i> , 2002, 67, 6623-6631.	3.2	98
7	Natural product-like chemical space: search for chemical dissectors of macromolecular interactions. <i>Current Opinion in Chemical Biology</i> , 2005, 9, 240-247.	6.1	97
8	Solid-Phase Catalysis: A Biomimetic Approach toward Ligands on Dendritic Arms to Explore Recyclable Hydroformylation Reactions. <i>Journal of the American Chemical Society</i> , 2001, 123, 2889-2890.	13.7	91
9	A Divergent, Solid-Phase Approach to Dendritic Ligands on Beads. <i>Heterogeneous Catalysis for Hydroformylation Reactions</i> 1a. <i>Journal of Organic Chemistry</i> , 2000, 65, 1881-1885.	3.2	90
10	Toward High-Throughput Synthesis of Complex Natural Product-Like Compounds in the Genomics and Proteomics Age. <i>Chemistry and Biology</i> , 2002, 9, 145-156.	6.0	85
11	Heck reaction using palladium complexed to dendrimers on silica. <i>Canadian Journal of Chemistry</i> , 2000, 78, 920-924.	1.1	78
12	A Small-Molecule Inhibitor of Bax and Bak Oligomerization Prevents Genotoxic Cell Death and Promotes Neuroprotection. <i>Cell Chemical Biology</i> , 2017, 24, 493-506.e5.	5.2	76
13	Stereocontrolled Solid-Phase Synthesis of a 90-Membered Library of Indoline-Alkaloid-like Polycycles from an Enantioenriched Aminoindoline Scaffold. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1366-1368.	13.8	72
14	Small Molecule Modulators of Protein-Protein Interactions: Selected Case Studies. <i>Chemical Reviews</i> , 2014, 114, 4640-4694.	47.7	71
15	Combinatorial Chemistry toward Understanding the Function(s) of Carbohydrates and Carbohydrate Conjugates. <i>Chemistry - A European Journal</i> , 2001, 7, 555-563.	3.3	39
16	The discovery of small molecule chemical probes of Bcl-XL and Mcl-1. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 7443-7449.	3.0	38
17	Stereoselective Synthesis of Carbon-Linked Analogues of $\hat{1}\pm$ - and $\hat{1}^2$ -Galactoserine Glycoconjugates Using Asymmetric Enolate Methodology 1. <i>Journal of Organic Chemistry</i> , 1998, 63, 4817-4820.	3.2	31
18	Automated High-Throughput Synthesis of Artificial Glycopeptides. Small-Molecule Probes for Chemical Glycobiology. <i>ACS Combinatorial Science</i> , 2002, 4, 193-198.	3.3	31

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19	Tris(trimethylsilyl)silane (TTMSS): formation of carbon-centered radicals from 1,3-dithiolanes and 1,3-dithianes. <i>Journal of Organic Chemistry</i> , 1990, 55, 6248-6250.	3.2	28
20	Remote asymmetric induction: Synthesis of C-linked Î±-galactoserine and homoserine derivatives by electrophilic amination. <i>Tetrahedron Letters</i> , 1998, 39, 6131-6134.	1.4	27
21	Diversity of C-linked neoglycopeptides for the exploration of subsite-assisted carbohydrate binding interactions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 1127-1132.	2.2	27
22	A Solid Phase Library Synthesis of Hydroxyindoline-Derived Tricyclic Derivatives by Mitsunobu Approach. <i>ACS Combinatorial Science</i> , 2004, 6, 65-72.	3.3	27
23	Combinatorial Chemistry for the Synthesis of Carbohydrate Libraries. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1280-1282.	4.4	26
24	Part 1. Modular Approach to Obtaining Diverse Tetrahydroquinoline-Derived Polycyclic Skeletons for Use in High-Throughput Generation of Natural-Product-like Chemical Probes. <i>ACS Combinatorial Science</i> , 2006, 8, 715-734.	3.3	26
25	Tris(trimethylsilyl)silane (TTMSS) : Formation of carbon-centered radicals from oxathiolane and thiazolidine derivatives. <i>Tetrahedron Letters</i> , 1991, 32, 2853-2856.	1.4	24
26	Thiazolidine derivatives: A new source of Î±-aminoalkyl radicals for carbon-carbon bond formation in synthesis. <i>Tetrahedron Letters</i> , 1991, 32, 6265-6268.	1.4	24
27	Macrocyclic Glycohybrid Toolbox Identifies Novel Antiangiogenesis Agents from Zebrafish Assay. <i>Organic Letters</i> , 2013, 15, 432-435.	4.6	24
28	Solution- and Solid-Phase Synthesis of Natural Product-Like Tetrahydroquinoline-Based Polycyclics Having a Medium Size Ring. <i>ACS Combinatorial Science</i> , 2004, 6, 735-745.	3.3	23
29	Stereoselective Diversity-Oriented Solution and Solid-Phase Synthesis of Tetrahydroquinoline-Based Polycyclic Derivatives. <i>ACS Combinatorial Science</i> , 2004, 6, 54-64.	3.3	23
30	Part 3. A Novel Stereocontrolled, In Situ, Solution- and Solid-Phase, Aza Michael Approach for High-Throughput Generation of Tetrahydroaminoquinoline-Derived Natural-Product-like Architectures. <i>ACS Combinatorial Science</i> , 2006, 8, 762-773.	3.3	23
31	Natural-product-like chiral derivatives by solid-phase synthesis. <i>Current Opinion in Chemical Biology</i> , 2001, 5, 292-301.	6.1	21
32	Benzofuran-Derived Cyclic Î²-Amino Acid Scaffold for Building a Diverse Set of Flavonoid-Like Probes and the Discovery of a Cell Motility Inhibitor. <i>Organic Letters</i> , 2008, 10, 1143-1146.	4.6	21
33	One-pot construction of isoindolo[2,1-a]quinoline system. <i>Tetrahedron Letters</i> , 2009, 50, 6661-6664.	1.4	21
34	A Solution- and Solid-Phase Approach to Tetrahydroquinoline-Derived Polycyclics Having a 10-Membered Ring. <i>ACS Combinatorial Science</i> , 2004, 6, 724-734.	3.3	20
35	Discovery of Indoline-Based, Natural-Product-like Compounds as Probes of Focal Adhesion Kinase Signaling Pathways. <i>ACS Combinatorial Science</i> , 2009, 11, 303-309.	3.3	20
36	Building a Macrocyclic Toolbox from C-Linked Carbohydrates Identifies Antiangiogenesis Agents from Zebrafish Assay. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 5036-5040.	2.4	20

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37	A Solid-Phase, Library Synthesis of Natural-Product-Like Derivatives from an Enantiomerically Pure Tetrahydroquinoline Scaffold. <i>ACS Combinatorial Science</i> , 2004, 6, 73-77.	3.3	19
38	Î±-Galactose based neoglycopeptides. Inhibition of verotoxin binding to globotriosylceramide. <i>Bioorganic and Medicinal Chemistry</i> , 1999, 7, 2823-2833.	3.0	18
39	Solution- and Solid-Phase, Modular Approaches for Obtaining Different Natural Product-Like Polycyclic Architectures from an Aminoindoline Scaffold for Combinatorial Chemistry. <i>ACS Combinatorial Science</i> , 2006, 8, 856-871.	3.3	18
40	14-Membered Macrocyclic Ring-Derived Toolbox: The Identification of Small Molecule Inhibitors of Angiogenesis and Early Embryo Development in Zebrafish Assay. <i>Organic Letters</i> , 2013, 15, 436-439.	4.6	18
41	Selected hybrid natural products as tubulin modulators. <i>European Journal of Medicinal Chemistry</i> , 2015, 94, 497-508.	5.5	16
42	Part 2: Building Diverse Natural-Product-Like Architectures from a Tetrahydroaminoquinoline Scaffold. Modular Solution- and Solid-Phase Approaches for Use in High-Throughput Generation of Chemical Probes. <i>ACS Combinatorial Science</i> , 2006, 8, 735-761.	3.3	15
43	Stereoselective synthesis of neo-C-glycopeptide building blocks: Towards a flexible and control-oriented design as probes for carbohydrate-protein interactions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997, 7, 1537-1542.	2.2	13
44	Tetrahydroquinoline-Derived Macrocyclic Toolbox: The Discovery of Antiangiogenesis Agents in Zebrafish Assay. <i>ACS Medicinal Chemistry Letters</i> , 2013, 4, 666-670.	2.8	13
45	An Intramolecular Heck Approach To Obtain 17-Membered Macrocyclic Diversity and the Identification of an Antiangiogenesis Agent from a Zebrafish Assay. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 3955-3958.	2.4	13
46	Practical Stereoselective Synthesis of Eribulin Fragment toward Building a Hybrid Macrocyclic Toolbox. <i>Organic Letters</i> , 2015, 17, 468-471.	4.6	13
47	Stereoselective Synthesis of Rapamycin Fragment To Build a Macrocyclic Toolbox. <i>Organic Letters</i> , 2015, 17, 480-483.	4.6	12
48	Synthesis and biological evaluation of rapamycin-derived, next generation small molecules. <i>MedChemComm</i> , 2018, 9, 27-43.	3.4	12
49	Glycomimetics: A Programmed Approach toward Neoglycopeptide Libraries1a. <i>ACS Combinatorial Science</i> , 2000, 2, 120-126.	3.3	11
50	A Modular Approach to Build Macrocyclic Diversity in Aminoindoline Scaffolds Identifies Antiangiogenesis Agents from a Zebrafish Assay. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 3959-3964.	2.4	11
51	Prevention of Mitochondrial Membrane Permeabilization and Pancreatic Î²-Cell Death by an Enantioenriched, Macrocyclic Small Molecule. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 1151-1156.	2.4	10
52	Der Einsatz kombinatorischer Chemie zur Synthese von Kohlenhydratbibliotheken. <i>Angewandte Chemie</i> , 1997, 109, 1335-1337.	2.0	9
53	Automated, Solid-Phase Synthesis of C-Neoglycopeptides: Coupling of Glycosyl Derivatives to Resin-Bound Peptides1. <i>ACS Combinatorial Science</i> , 1999, 1, 28-31.	3.3	9
54	Building skeletally diverse architectures on the Indoline Scaffold: The discovery of a chemical probe of focal adhesion kinase signaling networks. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 9596-9602.	3.0	9

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55	Reagent-Based, Modular, Tandem Michael Approach for Obtaining Different Indoline Alkaloid-Inspired Polycyclic Architectures. <i>ACS Combinatorial Science</i> , 2008, 10, 405-420.	3.3	9
56	Divergent Approach to Building a Latrunculin Family Derived Hybrid Macrocyclic Toolbox. <i>Organic Letters</i> , 2015, 17, 472-475.	4.6	9
57	Degradation of oleandomycin: controlled removal of sugars to give oleandonolide c3,c5-acetonide. <i>Tetrahedron</i> , 1988, 44, 253-260.	1.9	8
58	Solution- and Solid-Phase Synthesis of Tetrahydroquinoline-Based Polycyclics Having $\hat{1}\pm, \hat{1}^2$ -Unsaturated $\hat{1}^3$ -Lactam and $\hat{1}$ -Lactone Functionalities. <i>Synlett</i> , 2010, 2010, 199-202.	1.8	8
59	Stereoselective Synthesis of the C27â€“C35 Eribulin Fragment and Its Utilization in Building Structurally Diverse Macrocycles. <i>Synthesis</i> , 2016, 48, 1663-1683.	2.3	7
60	Geldanamycin-inspired compounds induce direct trans-differentiation of human mesenchymal stem cells to neurons. <i>European Journal of Medicinal Chemistry</i> , 2017, 135, 110-116.	5.5	6
61	High-throughput Chemistry toward Complex Carbohydrates and Carbohydrate-like Compounds a. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2002, 5, 179-93.	1.1	4
62	Synthesis of C1â€“C11 eribulin fragment and its diastereomeric analogues. <i>Tetrahedron Letters</i> , 2019, 60, 150915.	1.4	4
63	Stereoselective Approaches for Building the C14â€“C21 Fragment of Eribulin. <i>ChemistrySelect</i> , 2021, 6, 798-801.	1.5	3
64	Regio- and Stereocontrolled Dieckmann Approach to Treprostinil-Inspired, Polycyclic Scaffold For Building Macrocyclic Diversity. <i>ACS Combinatorial Science</i> , 2015, 17, 437-441.	3.8	1
65	Macrocyclic Toolbox from Epothilone Fragment Identifies a Compound Showing Molecular Interactions with Actin and Novel Promoters of Apoptosis in Patientâ€“derived Brain Tumor Cells. <i>Asian Journal of Organic Chemistry</i> , 2016, 5, 976-980.	2.7	1
66	Combinatorial Carbohydrate Chemistry. , 2005, , .		1
67	Toward High-Throughput Synthesis of Complex Natural Product Like Compounds in the Genomics and Proteomics Age. <i>ChemInform</i> , 2003, 34, no.	0.0	0
68	Combinatorial Synthesis of Alkaloid-like Compounds In Search of Chemical Probes of Protein-Protein Interactions. , 0, , 521-540.		0
69	Highâ€“Throughput Chemistry Toward Complex Carbohydrates and Carbohydrateâ€“like Compounds. <i>ChemInform</i> , 2002, 33, 263-263.	0.0	0
70	Natural Product-like Scaffolds for Molecular Dissection of Macromolecular Interactions and New Therapeutic Applications. , 2010, , 645-669.		0