

Gaurav Bhargava

List of Publications by Year in descending order

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68
papers

1,560
citations

257429

24
h-index

345203

36
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all docs

91
docs citations

91
times ranked

1202
citing authors

#	ARTICLE	IF	CITATIONS
1	Diphenylpyrimidinoneâ€“salicylideneamine â€“ new ESIPT based AIEgens with applications in latent fingerprinting. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11180-11189.	5.5	95
2	Nickelâ€“Catalyzed [3+2+2] Cycloadditions between Alkynylidenecyclopropanes and Activated Alkenes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9886-9890.	13.8	83
3	Palladium-catalyzed [3C + 2C + 2C] cycloaddition of enynylidenecyclopropanes: efficient construction of fused 5-7-5 tricyclic systems. <i>Chemical Communications</i> , 2010, 46, 270-272.	4.1	79
4	Self-assembled vesicle and rod-like aggregates of functionalized perylene diimide: reaction-based near-IR intracellular fluorescent probe for selective detection of palladium. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3750-3759.	5.8	66
5	Self-assembled small molecule based fluorescent detection of serum albumin proteins: Clinical detection and cell imaging. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 478-489.	7.8	65
6	Triple-signaling mechanisms-based three-in-one multi-channel chemosensor for discriminating Cu ²⁺ , acetate and ion pair mimicking AND, NOR, INH and IMP logic functions. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5524-5532.	5.5	57
7	Perylene Diimide Appended with 8-Hydroxyquinoline for Ratiometric Detection of Cu ²⁺ Ions and Metal Displacement Driven â€“Turn onâ€“Cyanide Sensing. <i>Journal of Fluorescence</i> , 2014, 24, 909-915.	2.5	55
8	Bay functionalized perylenediimide as a deaggregation based intracellular fluorescent probe for perchlorate. <i>Chemical Communications</i> , 2014, 50, 13994-13997.	4.1	54
9	AIE + ESIPT based red fluorescent aggregates for visualization of latent fingerprints. <i>New Journal of Chemistry</i> , 2018, 42, 12900-12907.	2.8	43
10	Rhodiumâ€“Catalyzed Intramolecular [3+2+2] Cycloadditions between Alkylidenecyclopropanes, Alkynes, and Alkenes. <i>Chemistry - A European Journal</i> , 2014, 20, 10255-10259.	3.3	42
11	Ionic Selfâ€“Assembled Platform of Perylenediimideâ€“Sodium Dodecylsulfate for Detection of Spermine in Clinical Samples. <i>Chemistry - an Asian Journal</i> , 2017, 12, 890-899.	3.3	41
12	Self-assembled nanorods of bay functionalized perylenediimide: Cu ²⁺ based â€“turn-onâ€“™ response for INH, complementary NOR/OR and TRANSFER logic functions and fluorosolvatochromism. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2488-2497.	5.5	38
13	Controllable supramolecular self-assemblies (rodsâ€“wiresâ€“spheres) and ICT/PET based perylene probes for palladium detection in solution and the solid state. <i>New Journal of Chemistry</i> , 2018, 42, 1010-1020.	2.8	37
14	Self-assembled nanofibers of perylene diimide for the detection of hypochlorite in water, bio-fluids and solid-state: exogenous and endogenous bioimaging of hypochlorite in cells. <i>Journal of Materials Chemistry B</i> , 2020, 8, 125-135.	5.8	37
15	Multifunctional metallo-supramolecular interlocked hexagonal microstructures for the detection of lead and thiols in water. <i>Chemical Communications</i> , 2018, 54, 9482-9485.	4.1	33
16	Perylene diimide-based organic Î€-motif for differentiating CN ^{âˆ’} and F ^{âˆ’} ions by electron-transfer and desilylation mechanisms: applications to complex logic circuits. <i>New Journal of Chemistry</i> , 2017, 41, 10281-10290.	2.8	32
17	Perylene diimideâ€“Cu ²⁺ based fluorescent nanoparticles for the detection of spermine in clinical and food samples: a step toward the development of a diagnostic kit as a POCT tool for spermine. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7218-7227.	5.8	32
18	A regio and diastereoselective transformation of 3-dienyl-2-azetidinones to novel pyrroloxazine. <i>Tetrahedron Letters</i> , 2010, 51, 2312-2315.	1.4	30

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19	β -Lactam Synthon-Interceded, Facile, One-Pot, Diastereoselective Synthesis of Functionalized Tetra/Octahydroisoquinolone Derivatives. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 2697-2704.	2.4	28
20	N-Propargylated isatin-Mannich mono- and bis-adducts: Synthesis and preliminary analysis of in vitro activity against <i>Trichomonas foetus</i> . <i>European Journal of Medicinal Chemistry</i> , 2014, 74, 657-663.	5.5	27
21	"To kill many birds with one stone": Addressing half-adder, half-subtractor, demultiplexer, 2-to-4 decoder, comparator, keypad lock with unimolecular system. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 1004-1014.	7.8	26
22	Diastereoselective approach to novel octahydroisoquinolones and an extension to its one-pot synthesis. <i>Tetrahedron Letters</i> , 2010, 51, 4272-4274.	1.4	25
23	Metal-free diastereoselective synthesis of diaza-bicyclo[3.2.0]heptan-7-one and its transformation to functionalized proline esters. <i>Tetrahedron Letters</i> , 2014, 55, 2793-2795.	1.4	25
24	Recent developments in the synthesis of condensed β -lactams. <i>RSC Advances</i> , 2016, 6, 99220-99250.	3.6	25
25	Dissymmetric Bay-Functionalized Perylenediimides. <i>Synlett</i> , 2018, 29, 1693-1699.	1.8	24
26	Near-IR discriminative detection of H ₂ S and Cysteine with 7-nitro-2,1,3-benzoxadiazole-perylenediimide conjugate in water, live cells and solid state: Mimicking IMP, INH and NOR/OR complimentary logic. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 388, 112151.	3.9	24
27	Coronene diimide-based self-assembled (fibre-to-disc) fluorescent aggregates for visualization of latent fingerprints. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 651-658.	7.8	22
28	PASS-assisted exploration of antidepressant activity of 1,3,4-trisubstituted β -lactam derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 5347-5349.	2.2	20
29	Lewis acid promoted imino Diels-Alder reactions of 5-dienyl pyrimidinones with N-aryl/naphthyl imines: synthesis of novel quinoline/benzoquinoline derivatives. <i>Tetrahedron</i> , 2008, 64, 3017-3024.	1.9	20
30	Highly Diastereoselective and Remarkably β -Facially Selective Lewis Acid-Catalysed Diels-Alder Cycloaddition Reactions: Access to Novel 1,3,4-Trisubstituted 2-Azetidinones. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 2397-2405.	2.4	19
31	Regio- and β -facial selective Lewis acid interceded Diels-Alder reactions of β -dienyl- β -lactams: an indepth analysis. <i>Tetrahedron</i> , 2008, 64, 6801-6808.	1.9	19
32	Cu-mediated Kinugasa reactions of β , β -unsaturated nitrones: a facile, diastereoselective route to 3-(hydroxy/bromo)methyl-1-aryl-4-(styryl)azetidino-2-ones. <i>New Journal of Chemistry</i> , 2016, 40, 8216-8219.	2.8	19
33	A multifunctional perylenediimide-based dual-analyte chemodosimeter for specific and rapid detection of H ₂ S and Pd ⁰ in water, biofluids, live cells and solid state. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 388, 112189.	3.9	18
34	Tandem [2+2] cycloaddition and Cope rearrangement in reactions of cross-conjugated azatrienes with conjugated ketenes: a facile single step synthesis of novel azocinone derivatives. <i>Tetrahedron</i> , 2006, 62, 11267-11273.	1.9	17
35	Quadruple-signaling (PET, ICT, ES IPT, C N rotation) mechanism-based dual chemosensor for detection of Cu ²⁺ and Zn ²⁺ ions: TRANSFER, INH and complimentary OR/NOR logic circuits. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 357, 175-184.	3.9	17
36	β -Lactam synthon-interceded diastereoselective synthesis of functionalized octahydroindole-based molecular scaffolds and their in vitro cytotoxic evaluation. <i>European Journal of Medicinal Chemistry</i> , 2012, 58, 513-518.	5.5	15

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37	[2+2] Cycloaddition Reactions of Butadienyl Ketene with 1,4-Diazabuta-1,3-dienes: Synthesis of Functionalized Butadienyl-4-aminomethyl-azetidines and Butenylidene-butadienyl-2,2-azetidine-4,4-diones. <i>Journal of Heterocyclic Chemistry</i> , 2016, 53, 1665-1669.	2.6	15
38	Transition-Metal-Catalyzed [3+2+2] Cycloaddition Reactions. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 853-868.	2.4	15
39	Lewis acid promoted aza Diels-Alder reactions of acyclic unactivated 5-dienyl pyrimidinones with N-arylimines: synthesis of novel quinoline derivatives. <i>Tetrahedron Letters</i> , 2007, 48, 2365-2368.	1.4	14
40	Nickel catalyzed [3+2] cycloaddition reaction of bis(methylenecyclopropane) with cyclic and acyclic dienophiles. <i>Tetrahedron Letters</i> , 2015, 56, 1307-1311.	1.4	13
41	Nanomolar Cu ²⁺ Detection in Water Based on Disassembly of AIEgen: Applications in Blood Serum, Cell Imaging and Complex Logic Circuits. <i>ChemistrySelect</i> , 2016, 1, 6880-6887.	1.5	13
42	A facile and chemoselective synthesis of 1,4-benzodiazepin-2-ones and dienyl thiazolidin-4-ones. <i>RSC Advances</i> , 2016, 6, 57485-57489.	3.6	13
43	Fluorometric differential detection of Zn ²⁺ and Cu ²⁺ by picolylamine appended pyrimidinone-based receptor: Application in mimicking TRANSFER and INH logic gate. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 150-158.	3.9	13
44	Transition metal catalyzed [6 + 2] cycloadditions. <i>RSC Advances</i> , 2019, 9, 25554-25568.	3.6	13
45	Tandem Aza-Michael and Intramolecular Amidic Ring-Opening Reactions of Î ² -Lactams: A Facile Synthesis of 4-Oxo-4,5-dihydro-1H-pyrroles from Î ² -Lactam Synthons. <i>Synlett</i> , 2016, 27, 422-426.	1.8	11
46	Microstructural (self-assembly) and optical based discrimination of Hg ²⁺ , CN ⁻ and Hg(CN) ₂ ion-pair; Hg ²⁺ promoted-ESIPT assisted guanylation of thiourea. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 43-52.	7.8	11
47	1,3,4-Trisubstituted-2-azetidinone Derivatives as Novel Receptors for Bismuth(III) Ion-Selective Electrodes: Application in Pharmaceutical and Glass Samples. <i>Analytical Letters</i> , 2009, 42, 2444-2459.	1.8	9
48	ESIPT-Based Dual Chemosensor for Sequential Detection of Cd ²⁺ /Zn ²⁺ and Nucleoside Triphosphates in Water: Application in Logic Gates. <i>ChemistrySelect</i> , 2018, 3, 7840-7848.	1.5	9
49	Diastereo- and Facially Selective Imino-Diels-Alder Cycloaddition of 2-Azeditinone-Tethered 1-Azadiene: Synthesis of Functionalized (2-Oxo-4-styrylazetidin-3-yl)-Pyridine Hybrids. <i>Synlett</i> , 2015, 26, 363-366.	1.8	8
50	An unprecedented methylene oxidation accompanying the aza Diels-Alder reactions of acyclic unactivated alkenes: synthesis of novel quinolin-3-one substituted pyrimidinone derivatives. <i>Tetrahedron Letters</i> , 2007, 48, 1711-1713.	1.4	7
51	[2+2] Cycloadditions of Sorbyl Tosylate with Imines/1-Azadienes: A One-Pot Domino Approach for Alkylidene-Î ² -lactams and Their Computational Studies and Antimicrobial Evaluation. <i>ChemistrySelect</i> , 2018, 3, 9484-9492.	1.5	7
52	Recent development in the synthesis of pyrrolin-4-ones/pyrrolin-3-ones. <i>Journal of Heterocyclic Chemistry</i> , 2020, 57, 4115-4135.	2.6	7
53	Regio- and Chemoselective Unprecedented Imino-Diels-Alder Reactions of 1-Substituted Unactivated Dienes with N-Aryl Imines - Part II. <i>Synlett</i> , 2008, 2008, 983-986.	1.8	6
54	Thieno [3,2-d] pyrimidin-4-one Derivatives as Potential Antibacterial Agents. <i>Journal of Life Sciences</i> , 2009, 1, 97-101.	0.1	6

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55	Regioselective Nitroso Diels-Alder Cycloaddition Reactions of 5-Dienylpyrimidinones and Transformation to Novel 4-Amino-Alcohol Tethered Pyrimidinones. <i>Heterocycles</i> , 2009, 77, 547.	0.7	6
56	Regio- and Diastereoselective Nitroso Diels-Alder Cycloaddition Reactions of 3-dienyl-2-azetidinones with Nitrosoarenes. <i>Letters in Organic Chemistry</i> , 2012, 9, 411-421.	0.5	5
57	A facile and highly chemoselective synthesis of 1-thia-3a,6-diaza-benzo[e]azulen-3-ones by 7-exo-dig/trig halocyclizations. <i>RSC Advances</i> , 2016, 6, 101587-101591.	3.6	5
58	A Facile Sodium Alkoxide Mediated Ring Opening of Unactivated α -Dienyl- β -lactams: Synthesis of Unnatural Multicomponent β -Aminodienoic Esters. <i>Heterocycles</i> , 2007, 73, 689.	0.7	5
59	Copper(I)-Catalyzed Regioselective C-H Amination of α -Pyridyl Imines Using Azidotrimethylsilane and TBHP: A One-Pot, Domino Approach to Substituted Imidazo[4,5-b]pyridines. <i>ChemistrySelect</i> , 2017, 2, 7827-7830.	2.5	2
60	Highly chemo- and diastereo-selective synthesis of 2,6-diazabicyclo[3.2.0]heptan-7-ones, pyrrolidines and perhydroazirino[2,3-c]pyrroles. <i>Arkivoc</i> , 2017, 2016, 23-44.	0.5	2
61	Acetylenic Ester Promoted Tandem Ring Opening of Dienyl Thiazolidin-4-ones and Cyclizations: A Facile and Chemoselective Synthesis of Functionalized Pyridine-2-carboxylates. <i>Synlett</i> , 2018, 29, 509-512.	1.8	2
62	Chemo- and Regioselective Imino Diels-Alder Reactions: Synthesis of Functionalized Novel Quinolin-3-one and Quinoline Derivatives. <i>Heterocycles</i> , 2010, 80, 379.	0.7	2
63	3-Butadienyl- β -lactams: A useful synthon for functionalized heterocycles. <i>Synthetic Communications</i> , 2020, 50, 3757-3776.	2.1	1
64	Rhodium-catalysed chemo- and regio-selective [3+2] cycloadditions of bis(methylenecyclopropanes) and alkynes: Synthesis of spirocyclic 5-7 condensed cycloheptenes. <i>Synthetic Communications</i> , 2020, 50, 840-848.	2.1	1
65	Oxa-Michael Addition Reactions of 3-hydroxy-2-azetidinones: Synthesis of 1, 3, 4-Trisubstituted-2-Azetidinones. <i>Letters in Organic Chemistry</i> , 2022, 19, 471-476.	0.5	1
66	7-endo-trig Pictet-Spengler type cyclization of 5-alkylidene/arylidene-amino-3H-pyrimidin-4-ones: An efficient and diastereoselective synthesis of pyrimido[4,5-b][1,4]benzodiazepines. <i>Synthetic Communications</i> , 0, 1-10.	2.1	0
67	Recent Developments in the Synthesis of Bicyclic Condensed Pyrimidinones. <i>Current Organic Chemistry</i> , 2022, 26, 122-161.	1.6	0
68	Facially Selective Oxo-Diels-Alder Cycloadditions of β -Dienyl- β -Lactam: An Entry to Pyrano Tethered β -Lactams Bifunctional Hybrids. <i>Oriental Journal of Chemistry</i> , 2022, 38, 790-795.	0.3	0