

# Pranjal K Baruah

## List of Publications by Year in descending order

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54  
papers

1,129  
citations

361413

20  
h-index

434195

31  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1142  
citing authors

#	ARTICLE	IF	CITATIONS
1	Can a C-H...O Interaction Be a Determinant of Conformation?. <i>Journal of the American Chemical Society</i> , 2012, 134, 12064-12071.	13.7	110
2	Recent advances in intramolecular C=O/C=N/C=S bond formation via C-H functionalization. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3445-3489.	4.5	93
3	Self-Assembly with Degenerate Prototropy. <i>Journal of Organic Chemistry</i> , 2005, 70, 6461-6467.	3.2	45
4	Catalyst-free multi-component cascade C-H-functionalization in water using molecular oxygen: an approach to 1,3-oxazines. <i>Green Chemistry</i> , 2017, 19, 4036-4042.	9.0	44
5	Enforcing Periodic Secondary Structures in Hybrid Peptides: A Novel Hybrid Foldamer Containing Periodic $\beta$ -Turn Motifs. <i>Journal of Organic Chemistry</i> , 2007, 72, 636-639.	3.2	42
6	A one-pot catalyst/external oxidant/solvent-free cascade approach to pyrimidines via a 1,5-hydride transfer. <i>Green Chemistry</i> , 2019, 21, 69-74.	9.0	41
7	Br <sub>2</sub> -Mediated Divergent Reactions of Betti Bases with Indoles: An Approach to Chromeno[2,3-b]indoles through Intramolecular Dehydrogenative C2-Alkoxylation of Indole. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 3441-3448.	2.4	39
8	BINOL-Based Foldamers Access to Oligomers with Diverse Structural Architectures. <i>Journal of Organic Chemistry</i> , 2007, 72, 5077-5084.	3.2	38
9	Introducing tetramethylurea as a new methylene precursor: a microwave-assisted RuCl <sub>3</sub> -catalyzed cross dehydrogenative coupling approach to bis(indolyl)methanes. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 1435-1443.	2.8	35
10	Self-complementary quadruple hydrogen bonding motifs: from design to function. <i>RSC Advances</i> , 2013, 3, 21202.	3.6	33
11	Iodine/tert-Butyl Hydroperoxide-Mediated Reaction of Indoles with Dimethylformamide/Dimethylacetamide to Synthesize Bis- and Tris(indolyl)methanes. <i>ChemistrySelect</i> , 2017, 2, 140-146.	1.5	32
12	Copper catalyzed oxidative deamination of Betti bases: an efficient approach for benzoylation/formylation of naphthols and phenols. <i>RSC Advances</i> , 2016, 6, 40552-40559.	3.6	31
13	Base-promoted three-component cascade approach to unsymmetrical bis(indolyl)methanes. <i>Tetrahedron Letters</i> , 2017, 58, 1999-2003.	1.4	30
14	Recent Advances on the C2-Functionalization of Indole via Umpolung. <i>Topics in Current Chemistry</i> , 2020, 378, 22.	5.8	30
15	Ten Years of Glory in the $\alpha$ -Functionalizations of Acetophenones: Progress Through Kornblum Oxidation and C-H Functionalization. <i>Topics in Current Chemistry</i> , 2022, 380, 1.	5.8	28
16	Iodine/Hydrogen Peroxide Promoted Intramolecular Oxidative C=O Bond Formation in Ethanol at Room Temperature: A Green Approach to 1,3-Oxazines. <i>Synlett</i> , 2017, 28, 461-466.	1.8	27
17	Metal-free intramolecular $\alpha$ -sp <sup>3</sup> C-H oxygenation of tert-amine: An efficient approach to 1,3-oxazines. <i>Tetrahedron Letters</i> , 2016, 57, 5479-5483.	1.4	26
18	Visible light-promoted metal-free intramolecular cross dehydrogenative coupling approach to 1,3-oxazines. <i>Tetrahedron Letters</i> , 2017, 58, 4006-4010.	1.4	23

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19	Bio-synthesized silver nanoparticles using <i>Zingiber officinale</i> rhizome extract as efficient catalyst for the degradation of environmental pollutants. <i>Inorganic and Nano-Metal Chemistry</i> , 2020, 50, 57-65.	1.6	23
20	Sheet-forming abiotic hetero foldamers. <i>Chemical Communications</i> , 2008, , 712-714.	4.1	21
21	Green Biosynthesis of Copper Oxide Nanoparticles Using Waste <i>Colocasia esculenta</i> Leaves Extract and Their Application as Recyclable Catalyst Towards the Synthesis of 1,2,3-triazoles. <i>BioNanoScience</i> , 2021, 11, 189-199.	3.5	20
22	Hydrogen-Bond-Catalyzed Arylation of 3-(Aminoalkyl)indoles via C–N Bond Cleavage with Thiourea under Microwave Irradiation: An Approach to 3-( $\pm$ , $\pm$ -Diarylmethyl)indoles. <i>Synlett</i> , 2016, 27, 2788-2794.	1.8	18
23	Multi-component synthesis of 3-substituted indoles and their cyclisation to $\pm$ -carbolines via $\text{I}_2$ -promoted intramolecular C2 oxidative amination/aromatisation at room temperature. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7806-7810.	2.8	18
24	Room temperature solvent free aza-Michael reactions over nano-cage mesoporous materials. <i>Journal of Molecular Catalysis A</i> , 2014, 394, 145-150.	4.8	17
25	$\text{I}_2$ /TBHP/cyclohexanone a novel catalyst system for the oxidative dearomatization of indoles to indolin-3-ones at room temperature under solvent-free condition. <i>Catalysis Communications</i> , 2018, 106, 68-72.	3.3	17
26	Diastereoselective $\text{sp}^3\text{-C-H}$ Functionalization of Arylmethyl Ketones and Transformation of $\text{E}$ to $\text{Z}$ Products Through Photocatalysis. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 424-428.	2.4	16
27	$\text{L-Proline}$ -catalyzed regioselective C1 arylation of tetrahydroisoquinolines through a multicomponent reaction under solvent-free conditions. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 6514-6518.	2.8	16
28	Progress of Metal-Free Visible-Light-Driven $\pm$ -C–H Functionalization of Tertiary Amines: A Decade Journey. <i>Asian Journal of Organic Chemistry</i> , 2022, 11, .	2.7	16
29	Copper-Catalyzed Tandem Multi-Component Approach to 1,3-Oxazines at Room Temperature by Cross-Dehydrogenative Coupling Using Methanol as C1 Feedstock. <i>Synlett</i> , 2018, 29, 1171-1175.	1.8	14
30	Development of $\beta$ -carotene loaded nanoemulsion using the industrial waste of orange ( <i>Citrus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 colorant. <i>Journal of Food Processing and Preservation</i> , 2020, 44, e14429.	2.0	14
31	$\pm$ -C–H functionalization of tertiary amines catalyzed/promoted by molecular iodine/derivatives. <i>New Journal of Chemistry</i> , 2021, 45, 14345-14359.	2.8	14
32	Green synthesis of 1,3-oxazines by visible light-promoted catalyst-free C–H activation/cyclization of tertiary amines. <i>Environmental Chemistry Letters</i> , 2022, 20, 109-118.	16.2	14
33	Deamination of Betti bases: a facile route to 1-alkyl-2-naphthols and phenols via a metal-free transfer hydrogenation under microwave irradiation. <i>Tetrahedron Letters</i> , 2015, 56, 4115-4118.	1.4	13
34	Room Temperature Ring Opening of Epoxides Over Triflic Acid Functionalized Cage Like Mesoporous Materials. <i>ChemistrySelect</i> , 2016, 1, 1650-1657.	1.5	13
35	Base-Promoted Three-Component One-Pot Approach to 3-( $\pm$ , $\pm$ -Diarylmethyl)indoles via Arylation of 3-Indolylalcohols. <i>Synthesis</i> , 2017, 49, 1401-1409.	2.3	12
36	Synthesis, anticonvulsant activity, and neuropathic pain-attenuating activity of N-benzyl 2-amino-2-(hetero)aromatic acetamides. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 3551-3564.	3.0	11

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37	Multi-Component Reaction of $\alpha$ -Aminouracils, Aldehydes and Secondary Amines: Conversion of the Products into Pyrimido[4,5-d]pyrimidines through $\alpha$ -Amination/Cyclization. <i>ChemistrySelect</i> , 2019, 4, 3381-3386.	1.5	11
38	C-C bond cleavage: Metal-free-catalyzed reaction of Betti bases with various heterocycles under microwave irradiation. <i>Synthetic Communications</i> , 2016, 46, 1940-1946.	2.1	9
39	I-Proline catalyzed domino Michael addition of N-substituted anilines. <i>Tetrahedron Letters</i> , 2018, 59, 4430-4433.	1.4	9
40	Cu(I)/Fe(III) promoted dicarbonylation of aminopyrazole via oxidative C-H coupling with methyl ketones. <i>Tetrahedron Letters</i> , 2019, 60, 1189-1192.	1.4	9
41	CAN-catalyzed microwave promoted reaction of indole with Betti bases under solvent-free condition and evaluation of antibacterial activity of the products. <i>Synthetic Communications</i> , 2017, 47, 2007-2014.	2.1	8
42	Oxidative Coupling of Naphthols to Ketones: An Approach to 1,2-Diketones. <i>ChemistrySelect</i> , 2018, 3, 1693-1696.	1.5	7
43	One-pot sequential multi-component reaction: Synthesis of 3-substituted indoles. <i>Synthetic Communications</i> , 2018, 48, 2074-2082.	2.1	7
44	Visible-Light-Driven Z-Selective Reaction of Methyl Ketones with DMSO: A Mild Synthetic Approach to Methylthio-Substituted 1,4-Enedione Promoted by Selectfluor. <i>Synthesis</i> , 2021, 53, 1095-1102.	2.3	7
45	Conversion of Fructose and Xylose into Platform Chemicals Using Organo-Functionalized Mesoporous Material. <i>ChemistrySelect</i> , 2018, 3, 10971-10976.	1.5	5
46	C-C Bond Cleavage by the Reaction of Cyclic Amines or Indoles with Activated Olefins: A Redox-Neutral Mechanism for the Reducing Action of Tetrahydroisoquinolines. <i>ChemistrySelect</i> , 2019, 4, 10425-10429.	1.5	4
47	Iodine-DMSO-Promoted Oxygenation of Indoles: Synthesis of Isatin and Isoindigo. <i>Asian Journal of Organic Chemistry</i> , 2022, 11, .	2.7	4
48	The solid-state behaviour of 4,6-dioxo-5,5-diethylenepyrimidine-2-isobutylurea. <i>CrystEngComm</i> , 2006, 8, 468.	2.6	3
49	Deamination of Indole Mannich Bases: An Efficient Route to 3- Benzyl/Alkylindoles via a Metal-Free Transfer Hydrogenation Under Microwave Irradiation. <i>Current Organocatalysis</i> , 2015, 3, 84-89.	0.5	3
50	Ultra-High Stokes Shift in Polycyclic Chromeno[2,3-b]Indoles. <i>Polycyclic Aromatic Compounds</i> , 2022, 42, 1710-1727.	2.6	3
51	Cage Like Al-KIT-5 Mesoporous Materials for C-C Bond Formation Reactions Under Solvent Free Conditions. <i>Catalysis Letters</i> , 2015, 145, 2037-2045.	2.6	2
52	A revisit to the multi-component reaction of indole, aldehyde, and N-substituted aniline catalyzed by PMA-SiO <sub>2</sub> . <i>Monatshefte für Chemie</i> , 2018, 149, 2245-2252.	1.8	2
53	Iodine-Catalyzed Synthesis of Alkylthio-Substituted 1,4-Enediones from Styrenes and Dialkyl Sulfoxides. <i>Synthesis</i> , 0, , .	2.3	1
54	6,6-Dibenzyltetrazolo[1,5-a]pyrimidine-5,7(4H,6H)-dione. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o3550-o3550.	0.2	0