

# Anjani Kumar Tiwari

## List of Publications by Year in descending order

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85  
papers

1,363  
citations

361045

20  
h-index

395343

33  
g-index

87  
all docs

87  
docs citations

87  
times ranked

1559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Luminescence studies of binding affinity of vildagliptin with bovine serum albumin. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 3002-3013.	2.0	4
2	Determination of Hybrid TSPO Ligands with Minimal Impact of SNP (rs6971) through Molecular Docking and MD Simulation Study. <i>Letters in Drug Design and Discovery</i> , 2022, 19, 549-563.	0.4	2
3	[ <sup>99m</sup> Tc-BBPA]: A possible SPECT agent to understand role of 18-kDa translocator protein (PBR/TSPO) during neuro-glial interaction. <i>Bioorganic Chemistry</i> , 2022, 121, 105678.	2.0	0
4	Benzoxazolone- <i>ε</i> -carylpiperazinyl scaffold- <i>ε</i> -based PET ligand for 5-HT <sub>7</sub> : Synthesis and biological evaluation. <i>Drug Development Research</i> , 2022, 83, 1024-1033.	1.4	6
5	The 18-kDa Translocator Protein PET Tracers as a Diagnostic Marker for Neuroinflammation: Development and Current Standing. <i>ACS Omega</i> , 2022, 7, 14412-14429.	1.6	16
6	Lanthanide (Ln <sup>3+</sup> ) complexes of bifunctional chelate: Synthesis, physicochemical study and interaction with human serum albumin (HSA). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 244, 118808.	2.0	4
7	Synthesis and biological evaluation of modified laminin peptide (N2S2-KDP) with enhanced affinity for neuronal growth and targeted molecular imaging (SPECT). <i>Bioorganic Chemistry</i> , 2021, 107, 104516.	2.0	4
8	Mapping of Translocator Protein (18 kDa) in Peripheral Sterile Inflammatory Disease and Cancer through PET Imaging. <i>Molecular Pharmaceutics</i> , 2021, 18, 1507-1529.	2.3	9
9	Synthesis and evaluation of technetium-99m labelled 1-(2-methoxyphenyl)piperazine derivative for single photon emission computed tomography imaging for targeting 5-HT <sub>1A</sub> . <i>Bioorganic Chemistry</i> , 2021, 111, 104972.	2.0	6
10	A Homobivalent SPECT Radioligand <i>ε</i> -Serinol Appended Methoxyphenyl Piperazine Derivative for Serotonin Receptor Imaging**. <i>ChemistrySelect</i> , 2021, 6, 5670-5677.	0.7	0
11	Receptor mapping using methoxy phenyl piperazine derivative: Preclinical PET imaging. <i>Bioorganic Chemistry</i> , 2021, 117, 105429.	2.0	1
12	Radiosynthesis and evaluation of acetamidobenzoxazolone based radioligand [ <sup>11</sup> C]N <sup>ε</sup> -MPB for visualization of 18 kDa TSPO in brain. <i>New Journal of Chemistry</i> , 2020, 44, 7912-7922.	1.4	12
13	Computational prediction of interaction and pharmacokinetics profile study for polyamino-polycarboxylic ligands on binding with human serum albumin. <i>New Journal of Chemistry</i> , 2020, 44, 2907-2918.	1.4	19
14	A Review on the Modern Synthetic Approach of Benzimidazole Candidate. <i>ChemistrySelect</i> , 2020, 5, 3981-3994.	0.7	56
15	Design, Synthesis, and In Silico Evaluation of Methyl 2-(2-(5-Bromo/chloro-2-oxobenzoxazol-3(2H)-yl)-acetamido)-3-phenylpropanoate for TSPO Targeting. <i>Radiochemistry</i> , 2020, 62, 107-118.	0.2	6
16	A Review on Modern Synthetic Route for the Construction of 1, 3-Diazanaphthalene Moiety. <i>Current Organic Chemistry</i> , 2020, 24, 1108-1138.	0.9	6
17	Comparative evaluation of <sup>99m</sup> Tc-MBIP-X/ <sup>11</sup> [C] MBMP for visualization of 18 kDa translocator protein. <i>New Journal of Chemistry</i> , 2019, 43, 11288-11295.	1.4	8
18	Modified benzoxazolone (ABO- <i>ε</i> AA) based single photon emission computed tomography (SPECT) probes for 18 kDa translocator protein. <i>Drug Development Research</i> , 2019, 80, 741-749.	1.4	9

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19	Synthesis and Preclinical Evaluation of Radioligand, <sup>99m</sup> Tc-DO3A-ET-PPAR for Imaging NRP-1 Specific Tumor. ChemistrySelect, 2019, 4, 12950-12954.	0.7	4
20	Chalcone Based Homodimeric PET Agent, <sup>11</sup> C-(Chal) <sub>2</sub> -DEA-Me, for Beta Amyloid Imaging: Synthesis and Bioevaluation. Molecular Pharmaceutics, 2018, 15, 1515-1525.	2.3	13
21	A Novel <sup>18</sup> F Labelled Imidazo-oxazolopyridine Derivative as b-Amyloid Imaging Agent: Synthesis and Preliminary Evaluation. Asian Journal of Chemistry, 2018, 30, 183-190.	0.1	2
22	Modified benzoxazolone derivative as <sup>18</sup> kD-a TSPPO ligand. Chemical Biology and Drug Design, 2017, 90, 511-519.	1.5	13
23	Zinc complex of tryptophan appended 1,4,7,10-tetraazacyclododecane as potential anticancer agent: Synthesis and evaluation. Bioorganic and Medicinal Chemistry, 2017, 25, 3483-3490.	1.4	26
24	Block Copolymer Based Nanoparticles for Theranostic Intervention of Cervical Cancer: Synthesis, Pharmacokinetics, and in Vitro/in Vivo Evaluation in HeLa Xenograft Models. ACS Applied Materials & Interfaces, 2017, 9, 22195-22211.	4.0	29
25	Design, synthesis and biological evaluation of antimalarial activity of new derivatives of 2,4,6-s-triazine. Chemistry Central Journal, 2017, 11, 132.	2.6	24
26	In Silico Designing and Analysis of Inhibitors against Target Protein Identified through Host-Pathogen Protein Interactions in Malaria. International Journal of Medicinal Chemistry, 2016, 2016, 1-13.	2.2	6
27	Design, synthesis and biological evaluation of methyl-2-(2-(5-bromo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (benzoxazolone) 114491-114499.	1.7	12
28	Design, synthesis and relaxation studies of triazole linked gadolinium(iii)-DO3A-BT-bistriazaspirodecanone as a potential MRI contrast agent. New Journal of Chemistry, 2016, 40, 5846-5854.	1.4	4
29	Gd(III)-DO3A-EBMPP: An Effort to Develop the MRI Contrast Agent with Enhanced Relaxivity. ChemistrySelect, 2016, 1, 6206-6211.	0.7	1
30	Comparative evaluation of Bis(thiosemicarbazone)- Biotin and Met-ac-TE3A for tumor imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 566-571.	2.0	0
31	[ <sup>18</sup> F]FPBMP: a potential new positron emission tomography radioligand for imaging of translocator protein (18 kDa) in peripheral organs of rats. RSC Advances, 2015, 5, 101447-101454.	1.7	16
32	[ <sup>18</sup> F]FEBMP: Positron Emission Tomography Imaging of TSPPO in a Model of Neuroinflammation in Rats, and <i>in vitro</i> Autoradiograms of the Human Brain. Theranostics, 2015, 5, 961-969.	4.6	45
33	Novel pyridinium oximes: synthesis, molecular docking and in vitro reactivation studies. RSC Advances, 2015, 5, 23471-23480.	1.7	3
34	Comparison of BTSE-RGD with DOTA-RGD as a potential imaging agent for tumors. RSC Advances, 2015, 5, 54439-54445.	1.7	1
35	Studies for development of novel quinazolinones: New biomarker for EGFR. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 143, 309-318.	2.0	6
36	Evaluation of methionine and tryptophan derivatised vehicles: Met-ac-TE3A/Trp-ac-TE3A for tumor imaging. RSC Advances, 2015, 5, 41977-41984.	1.7	5

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37	Synthesis, in silico screening and preclinical evaluation studies of a hexapeptide analogue for its antimicrobial efficacy. RSC Advances, 2015, 5, 97180-97186.	1.7	3
38	Design, synthesis and biological evaluation of coumarin coupled nitroimidazoles as potential imaging agents. RSC Advances, 2015, 5, 97102-97112.	1.7	2
39	Design, synthesis and biological evaluation of small molecule-based PET radioligands for the 5-hydroxytryptamine 7 receptor. RSC Advances, 2015, 5, 19752-19759.	1.7	10
40	In silico thermodynamics stability change analysis involved in BH <sub>4</sub> responsive mutations in phenylalanine hydroxylase: QM/MM and MD simulations analysis. Journal of Biomolecular Structure and Dynamics, 2015, 33, 573-583.	2.0	17
41	Oxime-dipeptides as anticholinesterase, reactivator of phosphorylated-serine of AChE catalytic triad: probing the mechanistic insight by MM-GBSA, dynamics simulations and DFT analysis. Journal of Biomolecular Structure and Dynamics, 2015, 33, 978-990.	2.0	19
42	Bis (histidine) with N2 Vehicle: An Important Skeleton for MR/Chelation Therapy. Chemical Biology and Drug Design, 2014, 83, 682-687.	1.5	2
43	Synthesis and evaluation of new <sup>18</sup> F-labelled acetamidobenzoxazolone-based radioligands for imaging of the translocator protein (18 kDa, TSPO) in the brain. Organic and Biomolecular Chemistry, 2014, 12, 9621-9630.	1.5	29
44	Prospective atom-based 3D-QSAR model prediction, pharmacophore generation, and molecular docking study of carbamate derivatives as dual inhibitors of AChE and MAO-B for Alzheimer's disease. Medicinal Chemistry Research, 2014, 23, 1114-1122.	1.1	17
45	Characterization of a novel acetamidobenzoxazolone-based PET ligand for translocator protein (18 kDa) imaging of neuroinflammation in the brain. Journal of Neurochemistry, 2014, 129, 712-720.	2.1	39
46	Bis(Methylpyridine)EDTA Derivative as a Potential Ligand for PET Imaging: Synthesis, Complexation, and Biological Evaluation. Chemical Biology and Drug Design, 2014, 84, 704-711.	1.5	1
47	Design and synthesis of calcium responsive magnetic resonance imaging agent: Its relaxation and luminescence studies. European Journal of Medicinal Chemistry, 2014, 82, 225-232.	2.6	1
48	Quantitative structure activity relationship of tetraaza macrocyclic vehicle DO3A with lanthanide relaxivity and hydrophobicity. Medicinal Chemistry Research, 2013, 22, 5861-5867.	1.1	0
49	Synthesis, Biological Evaluation and Molecular Docking Studies of High-Affinity Bone Targeting N,N'-Bis (alendronate) Diethylenetriamine-N,N'-Triacetic Acid: A Bifunctional Bone Scintigraphy Agent. Chemical Biology and Drug Design, 2013, 82, 468-476.	1.5	10
50	Perception into hypoxia selectivity and electronic features of symmetrically substituted bithiosemicarbazone ligands and their copper complexes: DFT and QM/MM docking. MedChemComm, 2013, 4, 542.	3.5	2
51	Synthesis, conjugation and relaxation studies of gadolinium(III)-4-benzothiazol-2-yl-phenylamine as a potential brain specific MR contrast agent. Dalton Transactions, 2013, 42, 4994.	1.6	25
52	Investigation for the Interaction of Tyramine-Based Anthraquinone Analogue with Human Serum Albumin by Optical Spectroscopic Technique. Chemical Biology and Drug Design, 2013, 81, 343-348.	1.5	4
53	Synthesis and biological evaluation of newly designed phosphonate based bone-seeking agent. European Journal of Medicinal Chemistry, 2013, 65, 12-20.	2.6	17
54	Design, Synthesis, and Biological Evaluation of Catecholamine Vehicle for Studying Dopaminergic System. Chemical Biology and Drug Design, 2013, 82, 226-232.	1.5	3

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55	Synthesis, Analytical Analysis, and Medicinal Aspect of Novel Benzimidazoles and their Metal Complexes. <i>Chemical Biology and Drug Design</i> , 2013, 82, 630-634.	1.5	3
56	Design and Docking Studies of [Diethylenetriaminepentaacetic Acid <sup>2-</sup> ] with Acetylcholine Receptor as a Molecular Imaging Agent for Single-Photon Emission Computed Tomographic Application. <i>Molecular Imaging</i> , 2012, 11, 7290.2011.00044.	0.7	7
57	Spectroscopic Interaction of a Coumarin Derivative with Bovine Serum Albumin. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2012, 27, 452-456.	0.7	8
58	Past and Present Scenario of Imaging Infection and Inflammation: A Nuclear Medicine Perspective. <i>Molecular Imaging</i> , 2012, 11, 7290.2011.00051.	0.7	5
59	Synthesis of Oxovanadium(IV) Schiff base Complexes derived from $\alpha$ -substituted Diamines and Pyridoxal <sup>5</sup> -Phosphate as Antitumor Agents. <i>Chemical Biology and Drug Design</i> , 2012, 79, 223-234.	1.5	38
60	Design, Synthesis, and Antimycobacterial Property of PEG <sup>bis</sup> (INH) Conjugates. <i>Chemical Biology and Drug Design</i> , 2012, 80, 245-253.	1.5	11
61	Facile synthesis of non-ionic dimeric molecular resonance imaging contrast agent: its relaxation and luminescence studies. <i>Dalton Transactions</i> , 2011, 40, 3346.	1.6	14
62	Preclinical Evaluation of DO3P-AME-DO3P: A Polyazamacrocyclic Methylene Phosphonate for Diagnosis and Therapy of Skeletal Metastases. <i>Bioconjugate Chemistry</i> , 2011, 22, 244-255.	1.8	20
63	Correlation of Physical Parameters During Radiochemical Synthesis of <sup>18</sup> F Positron Emission Tomography Radiopharmaceuticals. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2011, 26, 389-393.	0.7	0
64	Quantitative Structure Activity Relationship Study of 2,4,6-trisubstituted <sup>2</sup> -s-triazine Derivatives as Antimalarial Inhibitors of <i>Plasmodium Falciparum</i> Dihydrofolate Reductase. <i>Chemical Biology and Drug Design</i> , 2011, 77, 57-62.	1.5	22
65	Polyethylene-glycolylated isoniazid conjugate for reduced toxicity and sustained release. <i>Therapeutic Delivery</i> , 2011, 2, 205-212.	1.2	13
66	Prospective evaluation of solitary thyroid nodule on <sup>18</sup> F-FDG PET/CT and high-resolution ultrasonography. <i>Annals of Nuclear Medicine</i> , 2010, 24, 345-355.	1.2	30
67	SAR of Cu (II) Thiosemicarbazone Complexes as Hypoxic Imaging Agents: MM3 Analysis and Prediction of Biologic Properties. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2010, 25, 117-121.	0.7	3
68	Quantitative Structure-Activity Relationship Analysis of 4(3H)-Quinazolone Derivatives as Tyrosine Kinase Inhibitors by Multiple Linear Regression. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2010, 25, 559-562.	0.7	10
69	Design, Synthesis, and Fluorescence Lifetime Study of Benzothiazole Derivatives for Imaging of Amyloids. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2010, 25, 571-575.	0.7	5
70	Design, Synthesis, and <i>In Vitro</i> Antiproliferative Activity of Benzimidazole Analogues for Radiopharmaceutical Efficacy. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2010, 25, 245-250.	0.7	13
71	Comparative Evaluation of Glutamate-Sensitive Radiopharmaceuticals: Technetium-99m <sup>2</sup> -Glutamic Acid and Technetium-99m <sup>2</sup> -Diethylenetriaminepentaacetic Acid <sup>bis</sup> (Glutamate) Conjugate for Tumor Imaging. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2010, 25, 645-655.	0.7	11
72	Kinetic and mechanistic significance of the chemical activation of ciprofloxacin for conjugation chemistry. <i>International Journal of Chemical Kinetics</i> , 2009, 41, 349-356.	1.0	3

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73	Quantitative Structure–Property Relationship (Correlation Analysis) of Phosphonic Acid–Based Chelates in Design of MRI Contrast Agent. <i>Chemical Biology and Drug Design</i> , 2009, 74, 87-91.	1.5	14
74	<sup>99m</sup> Tc–DTPA–Amino Acids Conjugate as Specific SPECT Pharmaceuticals for Tumor Imaging. <i>Chemical Biology and Drug Design</i> , 2009, 74, 159-164.	1.5	21
75	Disubstituted 4(3H) Quinazolones: A Novel Class of Antitumor Agents. <i>Chemical Biology and Drug Design</i> , 2009, 74, 297-301.	1.5	22
76	Synthesis and Assessment of <sup>99m</sup> Tc Chelate-Conjugated Alendronate for Development of Specific Radiopharmaceuticals. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2009, 24, 209-214.	0.7	10
77	Synthesis, characterization and biological activity of Schiff base analogues of indole-3-carboxaldehyde. <i>European Journal of Medicinal Chemistry</i> , 2008, 43, 160-165.	2.6	285
78	Effect of a Novel Series of Benzothiazolo–Quinazolones on Epidermal Growth Factor Receptor (EGFR) and Biological Evaluations. <i>Chemical Biology and Drug Design</i> , 2008, 72, 533-539.	1.5	29
79	Polyethylene Glycol Conjugates of Methotrexate and Melphalan: Synthesis, Radiolabeling and Biologic Studies. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2008, 23, 571-580.	0.7	8
80	Synthesis and biological properties of 4-(3H)-quinazalone derivatives. <i>European Journal of Medicinal Chemistry</i> , 2007, 42, 1234-1238.	2.6	48
81	Synthesis and evaluation of Novel Benzimidazole derivative [Bz-Im] and its radio/biological studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 2749-2755.	1.0	21
82	Kinetic and mechanistic studies of oxidation of amine-N-polycarboxylates complexes of cobalt(II) by periodate ions in aqueous medium. <i>Journal of the Iranian Chemical Society</i> , 2007, 4, 63-71.	1.2	24
83	Synthesis and pharmacological study of novel pyrido-quinazolone analogues as anti-fungal, antibacterial, and anticancer agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 4581-4585.	1.0	48
84	The Mercury(II) Catalyzed Ligand Exchange Between Hexacyanoferrate(II) and Pyrazine in Aqueous Medium. <i>Transition Metal Chemistry</i> , 2005, 30, 968-977.	0.7	31
85	Current Status of Our Understanding for Brain Integrated Functions and its Energetics. <i>Neurochemical Research</i> , 0, , .	1.6	1