Anjani Kumar Tiwari

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Luminescence studies of binding affinity of vildagliptin with bovine serum albumin. Journal of Biomolecular Structure and Dynamics, 2023, 41, 3002-3013.	3.5	4
2	Determination of Hybrid TSPO Ligands with Minimal Impact of SNP (rs6971) through Molecular Docking and MD Simulation Study. Letters in Drug Design and Discovery, 2022, 19, 549-563.	0.7	2
3	[99mTc-BBPA]: A possible SPECT agent to understand role of 18-kDa translocator protein (PBR/TSPO) during neuro-glial interaction. Bioorganic Chemistry, 2022, 121, 105678.	4.1	Ο
4	Benzoxazoloneâ€arylpiperazinyl scaffoldâ€based PET ligand for 5â€HT ₇ : Synthesis and biological evaluation. Drug Development Research, 2022, 83, 1024-1033.	2.9	6
5	The 18-kDa Translocator Protein PET Tracers as a Diagnostic Marker for Neuroinflammation: Development and Current Standing. ACS Omega, 2022, 7, 14412-14429.	3.5	16
6	Lanthanide (Ln3+) complexes of bifunctional chelate: Synthesis, physicochemical study and interaction with human serum albumin (HSA). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 244, 118808.	3.9	4
7	Synthesis and biological evaluation of modified laminin peptide (N2S2-KDP) with enhanced affinity for neuronal growth and targeted molecular imaging (SPECT). Bioorganic Chemistry, 2021, 107, 104516.	4.1	4
8	Mapping of Translocator Protein (18 kDa) in Peripheral Sterile Inflammatory Disease and Cancer through PET Imaging. Molecular Pharmaceutics, 2021, 18, 1507-1529.	4.6	9
9	Synthesis and evaluation of technetium-99m labelled 1-(2-methoxyphenyl)piperazine derivative for single photon emission computed tomography imaging for targeting 5-HT1A. Bioorganic Chemistry, 2021, 111, 104972.	4.1	6
10	A Homobivalent SPECT Radioligand ―Serinol Appended Methoxyphenyl Piperazine Derivative for Serotonin Receptor Imaging**. ChemistrySelect, 2021, 6, 5670-5677.	1.5	0
11	Receptor mapping using methoxy phenyl piperazine derivative: Preclinical PET imaging. Bioorganic Chemistry, 2021, 117, 105429.	4.1	1
12	Radiosynthesis and evaluation of acetamidobenzoxazolone based radioligand [11C]N′-MPB for visualization of 18 kDa TSPO in brain. New Journal of Chemistry, 2020, 44, 7912-7922.	2.8	12
13	Computational prediction of interaction and pharmacokinetics profile study for polyamino-polycarboxylic ligands on binding with human serum albumin. New Journal of Chemistry, 2020, 44, 2907-2918.	2.8	19
14	A Review on the Modern Synthetic Approach of Benzimidazole Candidate. ChemistrySelect, 2020, 5, 3981-3994.	1.5	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. Radiochemistry, 2020, 62, 107-118.	0.7	6
16	A Review on Modern Synthetic Route for the Construction of 1, 3-Diazanaphthalene Moiety. Current Organic Chemistry, 2020, 24, 1108-1138.	1.6	6
17	Comparative evaluation of ^{99m} Tc-MBIP-X/ ¹¹ [C] MBMP for visualization of 18 kDa translocator protein. New Journal of Chemistry, 2019, 43, 11288-11295.	2.8	8
18	Modified benzoxazolone (ABOâ€AA) based single photon emission computed tomography (SPECT) probes for 18 kDa translocator protein. Drug Development Research, 2019, 80, 741-749.	2.9	9

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19	Synthesis and Preclinical Evaluation of Radioligand, ^{99m} Tcâ€DO3Aâ€Etâ€RPAR for Imaging NRPâ€1 Specific Tumor. ChemistrySelect, 2019, 4, 12950-12954.	1.5	4
20	Chalcone Based Homodimeric PET Agent, ¹¹ C-(Chal) ₂ DEA-Me, for Beta Amyloid Imaging: Synthesis and Bioevaluation. Molecular Pharmaceutics, 2018, 15, 1515-1525.	4.6	13
21	A Novel 18F Labelled Imidazo-oxazolopyridine Derivative as b-Amyloid Imaging Agent: Synthesis and Preliminary Evaluation. Asian Journal of Chemistry, 2018, 30, 183-190.	0.3	2
22	Modified benzoxazolone derivative as 18â€ <scp>kD</scp> a <scp>TSPO</scp> ligand. Chemical Biology and Drug Design, 2017, 90, 511-519.	3.2	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.	3.0	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.	8.0	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 5 114491-114499.	0 427 Td 3.6	(benzoxazo 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.	2.8	4
29	Gd(III)â€ÐO3A‧BMPP: An Effort to Develop the MRI Contrast Agent with Enhanced Relaxivity. ChemistrySelect, 2016, 1, 6206-6211.	1.5	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.	3.9	0
31	[¹⁸ 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.	3.6	16
32	[¹⁸ F]FEBMP: Positron Emission Tomography Imaging of TSPO in a Model of Neuroinflammation in Rats, and <i>in vitro</i> Autoradiograms of the Human Brain. Theranostics, 2015, 5, 961-969.	10.0	45
33	Novel pyridinium oximes: synthesis, molecular docking and in vitro reactivation studies. RSC Advances, 2015, 5, 23471-23480.	3.6	3
34	Comparison of BTSE-RGD with DOTA-RGD as a potential imaging agent for tumors. RSC Advances, 2015, 5, 54439-54445.	3.6	1
35	Studies for development of novel quinazolinones: New biomarker for EGFR. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 143, 309-318.	3.9	6
36	Evaluation of methionine and tryptophan derivatised vehicles: Met-ac-TE3A/Trp-ac-TE3A for tumor imaging. RSC Advances, 2015, 5, 41977-41984.	3.6	5

Anjani Kumar Tiwari

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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.	3.6	3
38	Design, synthesis and biological evaluation of coumarin coupled nitroimidazoles as potential imaging agents. RSC Advances, 2015, 5, 97102-97112.	3.6	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.	3.6	10
40	<i>In silico</i> thermodynamics stability change analysis involved in BH ₄ responsive mutations in phenylalanine hydroxylase: QM/MM and MD simulations analysis. Journal of Biomolecular Structure and Dynamics, 2015, 33, 573-583.	3.5	17
41	Oxime-dipeptides as anticholinesterase, reactivator of phosphonylated-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.	3.5	19
42	Bis (histidine) with N2 Vehicle: An Important Skeleton for MR/Chelation Therapy. Chemical Biology and Drug Design, 2014, 83, 682-687.	3.2	2
43	Synthesis and evaluation of new ¹⁸ 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.	2.8	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.	2.4	17
45	Characterization of a novel acetamidobenzoxazoloneâ€based PET ligand for translocator protein (18ÂkDa) imaging of neuroinflammation in the brain. Journal of Neurochemistry, 2014, 129, 712-720.	3.9	39
46	Bis(Methylpyridine)â€ <scp>EDTA</scp> Derivative as a Potential Ligand for <scp>PET</scp> Imaging: Synthesis, Complexation, and Biological Evaluation. Chemical Biology and Drug Design, 2014, 84, 704-711.	3.2	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.	5.5	1
48	Quantitative structure activity relationship of tetraaza macrocyclic vehicle DO3A with lanthanide relaxivity and hydrophobicity. Medicinal Chemistry Research, 2013, 22, 5861-5867.	2.4	0
49	Synthesis, Biological Evaluation and Molecular Docking Studies of High-Affinity Bone TargetingN,N'-Bis (alendronate) Diethylenetriamene-N,N'-Triacetic Acid: A Bifunctional Bone Scintigraphy Agent. Chemical Biology and Drug Design, 2013, 82, 468-476.	3.2	10
50	Perception into hypoxia selectivity and electronic features of symmetrically substituted bisthiosemicarbazone ligands and their copper complexes: DFT and QM/MM docking. MedChemComm, 2013, 4, 542.	3.4	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.	3.3	25
52	Investigation for the Interaction of Tyramineâ€Based Anthraquinone Analogue with Human Serum Albumin by Optical Spectroscopic Technique. Chemical Biology and Drug Design, 2013, 81, 343-348.	3.2	4
53	Synthesis and biological evaluation of newly designed phosphonate based bone-seeking agent. European Journal of Medicinal Chemistry, 2013, 65, 12-20.	5.5	17
54	Design, Synthesis, and Biological Evaluation of Catecholamine Vehicle for Studying Dopaminergic System. Chemical Biology and Drug Design, 2013, 82, 226-232.	3.2	3

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55	Synthesis, Analytical Analysis, and Medicinal Aspect of Novel Benzimidazoles and their Metal Complexes. Chemical Biology and Drug Design, 2013, 82, 630-634.	3.2	3
56	Design and Docking Studies of [Diethylenetriaminepentaacetic Acid–(Amino Acid) ₂] with Acetylcholine Receptor as a Molecular Imaging Agent for Single-Photon Emission Computed Tomographic Application. Molecular Imaging, 2012, 11, 7290.2011.00044.	1.4	7
57	Spectroscopic Interaction of a Coumarin Derivative with Bovine Serum Albumin. Cancer Biotherapy and Radiopharmaceuticals, 2012, 27, 452-456.	1.0	8
58	Past and Present Scenario of Imaging Infection and Inflammation: A Nuclear Medicine Perspective. Molecular Imaging, 2012, 11, 7290.2011.00051.	1.4	5
59	Synthesis of Oxovanadium(IV) Schiff base Complexes derived from Câ€substituted Diamines and Pyridoxalâ€5â€Phosphate as Antitumor Agents. Chemical Biology and Drug Design, 2012, 79, 223-234.	3.2	38
60	Design, Synthesis, and Antimycobacterial Property of PEG–bis(INH) Conjugates. Chemical Biology and Drug Design, 2012, 80, 245-253.	3.2	11
61	Facile synthesis of non-ionic dimeric molecular resonance imaging contrast agent: its relaxation and luminescence studies. Dalton Transactions, 2011, 40, 3346.	3.3	14
62	Preclinical Evaluation of DO3P-AME-DO3P: A Polyazamacrocyclic Methylene Phosphonate for Diagnosis and Therapy of Skeletal Metastases. Bioconjugate Chemistry, 2011, 22, 244-255.	3.6	20
63	Correlation of Physical Parameters During Radiochemical Synthesis of ¹⁸ F Positron Emission Tomography Radiopharmaceuticals. Cancer Biotherapy and Radiopharmaceuticals, 2011, 26, 389-393.	1.0	0
64	Quantitative Structure Activity Relationship Study of 2,4,6â€Trisubstitutedâ€sâ€triazine Derivatives as Antimalarial Inhibitors of <i>Plasmodium Falciparum</i> Dihydrofolate Reductase. Chemical Biology and Drug Design, 2011, 77, 57-62.	3.2	22
65	Polyethylene-glycolylated isoniazid conjugate for reduced toxicity and sustained release. Therapeutic Delivery, 2011, 2, 205-212.	2.2	13
66	Prospective evaluation of solitary thyroid nodule on 18F-FDG PET/CT and high-resolution ultrasonography. Annals of Nuclear Medicine, 2010, 24, 345-355.	2.2	30
67	SAR of Cu (II) Thiosemicarbazone Complexes as Hypoxic Imaging Agents: MM3 Analysis and Prediction of Biologic Properties. Cancer Biotherapy and Radiopharmaceuticals, 2010, 25, 117-121.	1.0	3
68	Quantitative Structure–Activity Relationship Analysis of 4(3H)-Quinazolone Derivatives as Tyrosine Kinase Inhibitors by Multiple Linear Regression. Cancer Biotherapy and Radiopharmaceuticals, 2010, 25, 559-562.	1.0	10
69	Design, Synthesis, and Fluorescence Lifetime Study of Benzothiazole Derivatives for Imaging of Amyloids. Cancer Biotherapy and Radiopharmaceuticals, 2010, 25, 571-575.	1.0	5
70	Design, Synthesis, and <i>In Vitro</i> Antiproliferative Activity of Benzimidazole Analogues for Radiopharmaceutical Efficacy. Cancer Biotherapy and Radiopharmaceuticals, 2010, 25, 245-250.	1.0	13
71	Comparative Evaluation of Glutamate-Sensitive Radiopharmaceuticals: Technetium-99m–Glutamic Acid and Technetium-99m–Diethylenetriaminepentaacetic Acid–bis(Glutamate) Conjugate for Tumor Imaging. Cancer Biotherapy and Radiopharmaceuticals, 2010, 25, 645-655.	1.0	11
72	Kinetic and mechanistic significance of the chemical activation of ciprofloxacin for conjugation chemistry. International Journal of Chemical Kinetics, 2009, 41, 349-356.	1.6	3

Anjani Kumar Tiwari

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73	Quantitative Structure–Property Relationship (Correlation Analysis) of Phosphonic Acidâ€Based Chelates in Design of MRI Contrast Agent. Chemical Biology and Drug Design, 2009, 74, 87-91.	3.2	14
74	^{99m} Tcâ€DTPAâ€Amino Acids Conjugate as Specific SPECT Pharmaceuticals for Tumor Imaging. Chemical Biology and Drug Design, 2009, 74, 159-164.	3.2	21
75	Disubstituted 4(3H) Quinazolones: A Novel Class of Antitumor Agents. Chemical Biology and Drug Design, 2009, 74, 297-301.	3.2	22
76	Synthesis and Assessment of ^{99m} Tc Chelate-Conjugated Alendronate for Development of Specific Radiopharmaceuticals. Cancer Biotherapy and Radiopharmaceuticals, 2009, 24, 209-214.	1.0	10
77	Synthesis, characterization and biological activity of Schiff base analogues of indole-3-carboxaldehyde. European Journal of Medicinal Chemistry, 2008, 43, 160-165.	5.5	285
78	Effect of a Novel Series of Benzothiazoloâ€Quinazolones on Epidermal Growth Factor Receptor (EGFR) and Biological Evaluations. Chemical Biology and Drug Design, 2008, 72, 533-539.	3.2	29
79	Polyethylene Glycol Conjugates of Methotrexate and Melphalan: Synthesis, Radiolabeling and Biologic Studies. Cancer Biotherapy and Radiopharmaceuticals, 2008, 23, 571-580.	1.0	8
80	Synthesis and biological properties of 4-(3H)-quinazolone derivatives. European Journal of Medicinal Chemistry, 2007, 42, 1234-1238.	5.5	48
81	Synthesis and evaluation of Novel Benzimidazole derivative [Bz-Im] and its radio/biological studies. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 2749-2755.	2.2	21
82	Kinetic and mechanistic studies of oxidation of amine-N-polycarboxylates complexes of cobalt(II) by periodate ions in aqueous medium. Journal of the Iranian Chemical Society, 2007, 4, 63-71.	2.2	24
83	Synthesis and pharmacological study of novel pyrido-quinazolone analogues as anti-fungal, antibacterial, and anticancer agents. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 4581-4585.	2.2	48
84	The Mercury(II) Catalyzed Ligand Exchange Between Hexacyanoferrate(II) and Pyrazine in Aqueous Medium. Transition Metal Chemistry, 2005, 30, 968-977.	1.4	31
85	Current Status of Our Understanding for Brain Integrated Functions and its Energetics. Neurochemical Research, 0, , .	3.3	1