Rubel Chakravarty

List of Publications by Year
in descending order

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101	2,317	218677	243625
papers	citations	26 h-index	44 g-index

101	101	101	2611
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanobody: The â€œMagic Bulletâ€•for Molecular Imaging?. Theranostics, 2014, 4, 386-398.	10.0	219
2	Intrinsically Germaniumâ€69â€Labeled Iron Oxide Nanoparticles: Synthesis and Inâ€Vivo Dualâ€Modality PET/MR Imaging. Advanced Materials, 2014, 26, 5119-5123.	21.0	158
3	Positron Emission Tomography Image-Guided Drug Delivery: Current Status and Future Perspectives. Molecular Pharmaceutics, 2014, 11, 3777-3797.	4.6	93
4	⁴⁴Sc: An Attractive Isotope for Peptide-Based PET Imaging. Molecular Pharmaceutics, 2014, 11, 2954-2961.	4.6	87
5	Development of an electrochemical 90Srâ€“90Y generator for separation of 90Y suitable for targeted therapy. Nuclear Medicine and Biology, 2008, 35, 245-253.	0.6	84
6	Hollow mesoporous silica nanoparticles for tumor vasculature targeting and PET image-guided drug delivery. Nanomedicine, 2015, 10, 1233-1246.	3.3	80
7	Matching the Decay Half-Life with the Biological Half-Life: ImmunoPET Imaging with ⁴⁴Sc-Labeled Cetuximab Fab Fragment. Bioconjugate Chemistry, 2014, 25, 2197-2204.	3.6	74
8	⁶⁴Cu²⁺ Ions as PET Probe: An Emerging Paradigm in Molecular Imaging of Cancer. Molecular Pharmaceutics, 2016, 13, 3601-3612.	4.6	59
9	Availability of Yttrium-90 from Strontium-90: A Nuclear Medicine Perspective. Cancer Biotherapy and Radiopharmaceuticals, 2012, 27, 621-641.	1.0	57
10	Nanoceria-PAN Composite-Based Advanced Sorbent Material: A Major Step Forward in the Field of Clinical-Grade ⁶⁸Ge/⁶⁸Ga Generator. ACS Applied Materials & Interfaces, 2010, 2, 2069-2075.	8.0	54
11	Development of a nano-zirconia based 68Ge/68Ga generator for biomedical applications. Nuclear Medicine and Biology, 2011, 38, 575-583.	0.6	49
12	Detailed evaluation on the effect of metal ion impurities on complexation of generator eluted 68Ga with different bifunctional chelators. Nuclear Medicine and Biology, 2013, 40, 197-205.	0.6	47
13	Molecular Imaging of Breast Cancer: Role of RGD Peptides. Mini-Reviews in Medicinal Chemistry, 2015, 15, 1073-1094.	2.4	47
14	An electro-amalgamation approach to isolate no-carrier-added 177Lu from neutron irradiated Yb for biomedical applications. Nuclear Medicine and Biology, 2010, 37, 811-820.	0.6	45
15	Polymer Embedded Nanocrystalline Titania Sorbent for ⁹⁹Mo-^{99m}Tc Generator. Journal of Nanoscience and Nanotechnology, 2008, 8, 4447-4452.	0.9	42
16	Practicality of Tetragonal Nano-Zirconia as a Prospective Sorbent in the Preparation of 99Mo/99mTc Generator for Biomedical Applications. Chromatographia, 2010, 72, 875-884.	1.3	42
17	Image-Guided Drug Delivery with Single-Photon Emission Computed Tomography: A Review of Literature. Current Drug Targets, 2015, 16, 592-609.	2.1	42
18	Preparation of clinical-scale 99Mo/99mTc column generator using neutron activated low specific activity 99Mo and nanocrystalline Î³-Al2O3 as column matrix. Nuclear Medicine and Biology, 2012, 39, 916-922.	0.6	38

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19	Radiolabeled inorganic nanoparticles for positron emission tomography imaging of cancer: an overview. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2017, 61, 181-204.	0.7	37
20	A novel electrochemical technique for the production of clinical grade 99mTc using (n, Î³)99Mo. Nuclear Medicine and Biology, 2010, 37, 21-28.	0.6	31
21	Mesoporous Alumina (MA) Based Double Column Approach for Development of a Clinical Scale ⁹⁹Mo/^{99m}Tc Generator Using (n,Î³)⁹⁹Mo: An Enticing Application of Nanomaterial. Industrial & Engineering Chemistry Research, 2013, 52, 11673-11684.	3.7	31
22	Clinical scale synthesis of intrinsically radiolabeled and cyclic RGD peptide functionalized 198Au nanoparticles for targeted cancer therapy. Nuclear Medicine and Biology, 2019, 72-73, 1-10.	0.6	31
23	Ammonium molybdophosphate impregnated alumina microspheres as a new generation sorbent for chromatographic 137Cs/137mBa generator. Journal of Chromatography A, 2012, 1220, 82-91.	3.7	30
24	Nanocrystalline zirconia: A novel sorbent for the preparation of 188W/188Re generator. Applied Radiation and Isotopes, 2010, 68, 229-238.	1.5	29
25	Role of Nanoporous Materials in Radiochemical Separations for Biomedical Applications. Journal of Nanoscience and Nanotechnology, 2013, 13, 2431-2450.	0.9	29
26	Detailed evaluation of different <scp>⁶⁸Ge/⁶⁸Ga</scp> generators: an attempt toward achieving efficient <scp>⁶⁸Ga</scp> radiopharmacy. Journal of Labelled Compounds and Radiopharmaceuticals, 2016, 59, 87-94.	1.0	27
27	Exploitation of Nano Alumina for the Chromatographic Separation of Clinical Grade ¹⁸⁸Re from ¹⁸⁸W: A Renaissance of the ¹⁸⁸W/¹⁸⁸Re Generator Technology. Analytical Chemistry, 2011, 83, 6342-6348.	6.5	26
28	Electrochemical Separation is an Attractive Strategy for Development of Radionuclide Generators for Medical Applications. Current Radiopharmaceuticals, 2012, 5, 271-287.	0.8	25
29	Targeted Î±-therapy of prostate cancer using radiolabeled PSMA inhibitors: a game changer in nuclear medicine. American Journal of Nuclear Medicine and Molecular Imaging, 2018, 8, 247-267.	1.0	25
30	Separation of Clinical Grade 188Re from 188W Using Polymer Embedded Nanocrystalline Titania. Chromatographia, 2009, 69, 1363-1372.	1.3	23
31	Long-Term Evaluation of â€˜BARC⁶⁸Ge/⁶⁸Ga Generatorâ€™ Based on the Nanoceria-Polyacrylonitrile Composite Sorbent. Cancer Biotherapy and Radiopharmaceuticals, 2013, 28, 631-637.	1.0	23
32	Facile One-Pot Synthesis of Intrinsically Radiolabeled and Cyclic RGD Conjugated ¹⁹⁹Au Nanoparticles for Potential Use in Nanoscale Brachytherapy. Industrial & Engineering Chemistry Research, 2018, 57, 14337-14346.	3.7	22
33	A novel 188W/188Re electrochemical generator with potential for medical applications. Radiochimica Acta, 2009, 97, .	1.2	21
34	Pivotal role of separation chemistry in the development of radionuclide generators to meet clinical demands. RSC Advances, 2014, 4, 42779-42803.	3.6	21
35	Nanomaterial-based adsorbents: the prospect of developing new generation radionuclide generators to meet future research and clinical demands. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 741-757.	1.5	20
36	The Practicality of Nanoceria-PAN-Based ⁶⁸Ge/⁶⁸Ga Generator Toward Preparation of ⁶⁸Ga-Labeled Cyclic RGD Dimer as a Potential PET Radiotracer for Tumor Imaging. Cancer Biotherapy and Radiopharmaceuticals, 2013, 28, 77-83.	1.0	19

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37	Prospects of medium specific activity ¹⁷⁷Lu in targeted therapy of prostate cancer using ¹⁷⁷Luâ€labeled PSMA inhibitor. Journal of Labelled Compounds and Radiopharmaceuticals, 2016, 59, 364-371.	1.0	19
38	Industrial-Scale Synthesis of Intrinsically Radiolabeled ⁶⁴CuS Nanoparticles for Use in Positron Emission Tomography (PET) Imaging of Cancer. Industrial & Engineering Chemistry Research, 2016, 55, 12407-12419.	3.7	19
39	Mechanochemical synthesis of mesoporous tin oxide: a new generation nanosorbent for ⁶⁸Ge/⁶⁸Ga generator technology. Dalton Transactions, 2016, 45, 13361-13372.	3.3	19
40	Electrochemical Separation: Promises, Opportunities, and Challenges To Develop Next-Generation Radionuclide Generators To Meet Clinical Demands. Industrial & Engineering Chemistry Research, 2014, 53, 3766-3777.	3.7	18
41	A systematic comparative evaluation of ⁹⁰Yâ€labeled bifunctional chelators for their use in targeted therapy. Journal of Labelled Compounds and Radiopharmaceuticals, 2014, 57, 65-74.	1.0	17
42	Evaluation of two novel 64Cu-labeled RGD peptide radiotracers for enhanced PET imaging of tumor integrin Î±vÎ²3. European Journal of Nuclear Medicine and Molecular Imaging, 2015, 42, 1859-1868.	6.4	17
43	Solid state synthesis of mesoporous alumina: A viable strategy for preparation of an advanced nanosorbent for 99Mo/99mTc generator technology. Microporous and Mesoporous Materials, 2019, 287, 271-279.	4.4	17
44	Post-elution concentration of 188Re by an electrochemical method. Applied Radiation and Isotopes, 2010, 68, 2302-2305.	1.5	16
45	Synthesis and Biological Evaluation of ⁹⁰Y-Labeled Porphyrin-DOTA Conjugate: A Potential Molecule for Targeted Tumor Therapy. Cancer Biotherapy and Radiopharmaceuticals, 2013, 28, 651-656.	1.0	16
46	⁹⁰Y/¹⁷⁷Luâ€labelled Cetuximab immunoconjugates: radiochemistry optimization to clinical dose formulation. Journal of Labelled Compounds and Radiopharmaceuticals, 2016, 59, 354-363.	1.0	16
47	An electroamalgamation approach to separate⁴⁷Sc from neutron-activated⁴⁶Ca target for use in cancer theranostics. Separation Science and Technology, 2017, 52, 2363-2371.	2.5	16
48	Indirect Production of No Carrier Added (NCA) ¹⁷⁷Lu from Irradiation of Enriched ¹⁷⁶Yb: Options for Ytterbium/Lutetium Separation. Current Radiopharmaceuticals, 2015, 8, 107-118.	0.8	16
49	Development of technology for the large-scale preparation of 60Co polymer film source. Applied Radiation and Isotopes, 2008, 66, 1825-1829.	1.5	14
50	Clinical 68Ga-PET: Is radiosynthesis module an absolute necessity?. Nuclear Medicine and Biology, 2017, 46, 1-11.	0.6	14
51	Radionuclide generators: the prospect of availing PET radiotracers to meet current clinical needs and future research demands. American Journal of Nuclear Medicine and Molecular Imaging, 2019, 9, 30-66.	1.0	14
52	Reactor production and electrochemical purification of 169Er: A potential step forward for its utilization in in vivo therapeutic applications. Nuclear Medicine and Biology, 2014, 41, 163-170.	0.6	13
53	Multidose formulation of ready-to-use 177Lu-PSMA-617 in a centralized radiopharmacy set-up. Applied Radiation and Isotopes, 2018, 139, 91-97.	1.5	13
54	Facile radiochemical separation of clinical-grade 90Y from 90Sr by selective precipitation for targeted radionuclide therapy. Nuclear Medicine and Biology, 2019, 68-69, 58-65.	0.6	13

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55	⁶⁴CuCl₂ produced by direct neutron activation route as a cost-effective probe for cancer imaging: the journey has begun. RSC Advances, 2015, 5, 91723-91733.	3.6	12
56	An electrochemical procedure to concentrate 99mTc availed from a zirconium [99Mo] molybdate gel generator. Applied Radiation and Isotopes, 2012, 70, 375-379.	1.5	11
57	Nanomaterial-Based Adsorbent: Promises, Opportunities, and Challenges to Develop Column Chromatography Radionuclide Generators for Nuclear Medicine. Separation and Purification Reviews, 2017, 46, 91-107.	5.5	10
58	Syntheses and evaluation of ⁶⁸Gaâ€•and ¹⁵³Smâ€labeled <scp>DOTA</scp>â€conjugated bisphosphonate ligand for potential use in detection of skeletal metastases and management of pain arising from skeletal metastases. Chemical Biology and Drug Design, 2018, 92, 1618-1626.	3.2	10
59	Reactor produced [64Cu]CuCl2 as a PET radiopharmaceutical for cancer imaging: from radiochemistry laboratory to nuclear medicine clinic. Annals of Nuclear Medicine, 2020, 34, 899-910.	2.2	10
60	A facile strategy for synthesis of a broad palette of intrinsically radiolabeled chitosan nanoparticles for potential use in cancer theranostics. Journal of Drug Delivery Science and Technology, 2021, 63, 102485.	3.0	10
61	A novel electrochemical 99Mo/99mTc generator. Journal of Radioanalytical and Nuclear Chemistry, 2011, 290, 45-51.	1.5	9
62	Nano Structured Metal Oxides as Potential Sorbents for¹⁸⁸W/¹⁸⁸Re Generator: A Comparative Study. Separation Science and Technology, 2013, 48, 607-616.	2.5	9
63	Single vial kit formulation for preparation of PET radiopharmaceutical: 68Ga-DOTA-TOC. Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 1253-1258.	1.5	9
64	Toward realization of â€˜mix-and-useâ€™ approach in 68 Ga radiopharmacy: preparation, evaluation and preliminary clinical utilization of 68 Ga-labeled NODAGA-coupled RGD peptide derivative. Nuclear Medicine and Biology, 2016, 43, 116-123.	0.6	9
65	Bioinspired Synthesis of Intrinsically ¹⁷⁷Lu-Labeled Hybrid Nanoparticles for Potential Cancer Therapy. Industrial & Engineering Chemistry Research, 2020, 59, 22492-22500.	3.7	9
66	Development of a 99Mo/99mTc generator using alumina microspheres for industrial radiotracer applications. Applied Radiation and Isotopes, 2012, 70, 51-58.	1.5	8
67	Palliative care of bone pain due to skeletal metastases: Exploring newer avenues using neutron activated 45 Ca. Nuclear Medicine and Biology, 2016, 43, 140-149.	0.6	8
68	An electrochemical approach for removal of radionuclidic contaminants of Eu from 153 Sm for effective use in metastatic bone pain palliation. Nuclear Medicine and Biology, 2018, 58, 8-19.	0.6	8
69	Polymer Embedded Nanocrystalline Titania: A New Generation Sorbent for the Separation of 77As from Ge for Biomedical Applications. Chromatographia, 2011, 74, 531-540.	1.3	7
70	A â€œmixâ€andâ€•useâ€•approach for formulation of human clinical doses of ¹⁷⁷<scp>Luâ€DOTMP</scp> at hospital radiopharmacy for management of pain arising from skeletal metastases. Journal of Labelled Compounds and Radiopharmaceuticals, 2017, 60, 410-419.	1.0	7
71	An Alumina Based 99Moâ€“99mTc Generator to Produce 99mTc in Organic Medium Suitable for Industrial Radiotracer Applications. Chromatographia, 2009, 69, 497-501.	1.3	6
72	Birnessite: A Newâ€Generation and Cost Effective Ion Exchange Material for Separation of Clinicalâ€Grade ⁹⁰Y from ⁹⁰Sr/⁹⁰Y Mixture. ChemistrySelect, 2018, 3, 10670-10676.	1.5	6

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73	A simple and robust method for radiochemical separation of no-carrier-added 64Cu produced in a research reactor for radiopharmaceutical preparation. Applied Radiation and Isotopes, 2020, 165, 109341.	1.5	6
74	A novel approach to prepare 90Yâ€“EGMP patches for superficial brachytherapy. Applied Radiation and Isotopes, 2009, 67, 1416-1420.	1.5	5
75	An electro-amalgamation approach to produce 175Yb suitable for radiopharmaceutical applications. Radiochimica Acta, 2012, 100, 255-261.	1.2	5
76	Irradiation parameters play a crucial role in the (n, Î³) production of 170Tm suitable for clinical use in bone pain palliation. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 1105-1113.	1.5	5
77	Facile Oneâ€Pot Synthesis of Intrinsically Radiolabeled ⁶⁴Cuâ€Human Serum Albumin Nanocomposite for Cancer Targeting. ChemistrySelect, 2017, 2, 8043-8051.	1.5	5
78	A kit based methodology for convenient formulation of 166Ho-Chitosan complex for treatment of liver cancer. Applied Radiation and Isotopes, 2020, 161, 109161.	1.5	5
79	Column Chromatography Using Nano-Sorbent: A Viable Approach Towards Post-Processing Concentration of125I for Medical Applications. Separation Science and Technology, 2013, 48, 2108-2114.	2.5	4
80	Usefulness of nano-zirconia for purification and concentration of 125I solution for medical applications. Applied Radiation and Isotopes, 2013, 82, 351-358.	1.5	4
81	Nano-crystalline zirconia: a viable adsorbent for the column chromatographic separation of 58Co from neutron irradiated nickel targets. Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 1245-1251.	1.5	4
82	Utilization of a novel electrochemical ⁹⁰Sr/⁹⁰Y generator for the preparation of ⁹⁰Y-labeled RGD peptide dimer in clinically relevant dose. Radiochimica Acta, 2014, 102, 523-534.	1.2	4
83	A facile method for electrochemical separation of 181â^'186Re from proton irradiated natural tungsten oxide target. Applied Radiation and Isotopes, 2019, 154, 108885.	1.5	4
84	Production of a broad palette of positron emitting radioisotopes using a low-energy cyclotron: Towards a new success story in cancer imaging?. Applied Radiation and Isotopes, 2021, 176, 109860.	1.5	4
85	Electrochemical separation of 132/135La theranostic pair from proton irradiated Ba target. Separation and Purification Technology, 2022, 280, 119908.	7.9	4
86	A novel method for the preparation of large-area 90Sr/90Y sources for the calibration of hand contamination monitors. Applied Radiation and Isotopes, 2013, 79, 5-11.	1.5	3
87	On the Application of Nafion Membrane for the Preparation of ⁹⁰Y Skin Patches, Quality Control, and Biological Evaluation for Treatment of Superficial Tumors. Cancer Biotherapy and Radiopharmaceuticals, 2014, 29, 200-209.	1.0	3
88	Investigation on the influence of metal ion impurities on the complexation behavior of generator produced 90Y with different bifunctional chelators. Radiochimica Acta, 2014, 102, 947-954.	1.2	3
89	Formulation and purification of therapeutic dose of 90 Y-labeled peptides: Some interesting radiochemistry aspects. Applied Radiation and Isotopes, 2017, 121, 1-5.	1.5	3
90	An improved kit formulation for oneâ€pot synthesis of [^{99m}Tc]Tcâ€HYNICâ€[c(RGDfK)]₂ for routine clinical use in cancer imaging. Journal of Labelled Compounds and Radiopharmaceuticals, 2019, 62, 823-834.	1.0	3

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91	Efficacy and safety of 177Lu-DOTMP in palliative treatment of symptomatic skeletal metastases: a prospective study. Nuclear Medicine Communications, 2021, 42, 964-971.	1.1	3
92	Clinically Relevant Radioactive Dose Formulation of ¹⁷⁷Luâ€Labeled Cetuximabâ€Fab Fragment for Potential Use in Cancer Theranostics. ChemistrySelect, 2018, 3, 242-248.	1.5	2
93	Mechanochemically synthesized mesoporous alumina: An advanced sorbent for post-processing concentration of 131I for cancer therapy. Journal of Chromatography A, 2020, 1612, 460614.	3.7	2
94	Initial clinical experience with 68Ga-DOTA-NOC prepared using 68Ga from nanoceria-polyacrylonitrile composite sorbent-based 68Ge/68Ga generator and freeze-dried DOTA-NOC kits. World Journal of Nuclear Medicine, 2017, 16, 140.	0.5	2
95	Radiochemical separation of no-carrier-added 186Re from proton irradiated tungsten target. Journal of Radioanalytical and Nuclear Chemistry, 2020, 325, 875-883.	1.5	1
96	A review of advances in the last decade on targeted cancer therapy using Lu: focusing on Lu produced by the direct neutron activation route.. American Journal of Nuclear Medicine and Molecular Imaging, 2021, 11, 443-475.	1.0	1
97	Theranostic Nanoplatforms for PET Image-Guided Drug Delivery. , 2017, , 257-275.		0
98	Barium titanate microparticles as potential carrier platform for lanthanide radionuclides for their use in the treatment of arthritis. Journal of Labelled Compounds and Radiopharmaceuticals, 2018, 61, 522-532.	1.0	0
99	Formulation of â€˜ready-to-useâ€™ human clinical doses of ¹⁷⁷Lu-labeled bisphosphonate amide of DOTA using moderate specific activity ¹⁷⁷Lu and its preliminary evaluation in human patient. Radiochimica Acta, 2020, 108, 661-672.	1.2	0
100	Mechanochemically synthesized mesoporous alumina: a smart new-generation sorbent for preparation of chromatographic 188W/188Re generator. SN Applied Sciences, 2021, 3, 1.	2.9	0
101	A solvent extraction-based procedure for removal of 46Sc impurity from reactor produced [45Ca]CaCl2 for its potential use in bone pain palliation. Applied Radiation and Isotopes, 2022, 188, 110352.	1.5	0