令和7年度発表論文一覧｜Publications of FY2025

環境放射能研究所
INSTITUTE OF ENVIRONMENTAL RADIOACTIVITY

Category : 1: peer reviewed, 2: non peer reviewed journals/books, 3: others

No.	Title タイトル	IERAuthor IER著者	Author 著者	Journal 雑誌名	Category 分類	Month/Year 年月	DOI
110	Magnetic graphene nanocomposites: a new frontier in radioactive waste remediation	Barua A.; Rahman Z.; Rahman I.	Mahiuddin M.; Barua A.; Islam A.B.M.N.; Islam Monir M.S.; Rahman A.; Mallick S.; Moore J.T.; Siddiquee T.A.; Rahman Z.; Rahman I.	Environmental Science: Advances	1	Feb-2026	10.1039/d5va00319a
109	Radioecological dynamics of primordial radionuclides in rice agroecosystems: A comprehensive assessment of transfer pathways and health risk assessment in the Manavalakurichi NHBRA	Begum Z.A.; Rahman I.M.M.	Ahmed M.S.; Santhanabharathi B.; Chandrasekaran A.; Pradhoshini K.P.; Priyadharshini M.; Aarthi M.; Khan J.K.R.; Ravimanickam T.; Sathish V.; Duong V.-H.; Begum Z.A.; Rahman I.M.M.; Musthafa M.S.	Science of the Total Environment, 994, 180029	1	Sep-2025	10.1016/j.scitotenv.2025.180029
108	Health risk assessment of ^{210}Po and ^{210}Pb due to consumption of dried fish from natural high background radiation areas of Kanyakumari coast, Tamil Nadu, India	Begum Z.A.; Rahman I.M.M.	Khan J.K.R.; Thangarasu R.; Ahmed M.S.; Priyadharshini M.; Santhanabharathi B.; Pradhoshini K.P.; Duong V.-H.; Krishnamoorthy R.; Begum Z.A.; Rahman I.M.M.; Musthafa M.S.	Marine Pollution Bulletin, 217, 118040	1	Aug-2025	10.1016/j.marpolbul.2025.118040
107	From biomass to biosorbents: A review of plant-based materials for radionuclide removal from water	Begum Z.A.; Rahman I.M.M.	Ripon R.I.; Begum Z.A.; Rahman I.M.M.	Chemical Engineering Journal, 518, 164735	1	Aug-2025	10.1016/j.cej.2025.164735
106	Fukushima Daiichi Nuclear Power Plant's radioactive water: A decade of treatment and the road ahead?	Begum Z.A.; Takata H.; Rahman I.M.M.	Ripon R.I.; Begum Z.A.; Takata H.; Rahman I.M.M.	Radiation Physics and Chemistry 233 112683	1	Aug-2025	10.1016/j.radphyschem.2025.112683
105	A giant's appetite: how body size drives the diet and trophic position of the Japanese giant salamander	Fukushima K.	Duret C.; Lejeune B.; Lepoint G.; Bartet T.; Okada S.; Fukushima K.; Kishida O.; Denoël M.	Oikos	1	Jan-2026	10.1002/oik.11831
104	Impact of methane fermentation waste fluid application rates on maize yield and fate of N with special reference to soil textures	Fukushima K.	Bui T.N.; Shibata M.; Matsubara K.; Fukushima K.; Lyu H.; Matoh T.; Funakawa S.	Soil Science and Plant Nutrition	1	Jun-2025	10.1080/00380768.2025.2521507
103	Assessing spatial variability in land-use impacts on river water quality: a case study of the yura river watershed, Japan	Fukushima K.	Tokito M.; Asano S.; Fukushima K.; Watanabe K.; Saizen I.	Environmental Management	1	Dec-2025	10.1007/s00267-025-02269-0
102	Soil texture affects the nitrogen fate in the methane fermentation digestate applied to paddy soil	Fukushima K.	Bui T.N.; Shibata M.; Matsubara K.; Fukushima K.; Matoh T.; Funakawa S.	Soil Science and Plant Nutrition	1	May-2025	10.1080/00380768.2025.2508979
101	Ocean general circulation model simulations of anthropogenic tritium releases from the Fukushima Daiichi nuclear power plant site	Gusyev M	Cauquoin A.; Gusyev M.; Komuro Y.; Ono J.; Yoshimura K.	Marine Pollution Bulletin, 2025, 220, 118294	1	Nov-2025	10.1016/j.marpolbul.2025.118294
100	"Micro-Nano Plastics – Impact on Floodplain Aquifers, Environmental Degradation, and Global Challenges", Chapter in Micro-Nano Plastics: Impact on Floodplain Aquifer	Gusyev M.	Moniruzzaman Md.; Al-Asad H.; Hazzaz Bin Hassan H.B.; Gusyev M.	Eds. Srijan Goswami, Moharana Choudhury, Palas Samanta, Springer Nature Sustainable Development Goals Series, ISSN 2523-3084/ISSN 2523-3092 (electronic), 346 pp	3	2025	
99	Comparison of ^{90}Sr/^{137}Cs activity ratios in the soil of fallout plumes from aboveground nuclear and thermonuclear tests at the Semipalatinsk Test Site	Gusyev M.	Baklanova Y.V.; Kabdyrakova A.M.; Aidarkhanov A.O.; Krivitskiy P.Y.; Kunduzbayeva A.Y.; Abisheva; Salmenbayev S.Y.; Larionova N.V.; Gusyev M.	Journal of Environmental Radioactivity, 2025, 287, 107726	1	Jul-2025	10.1016/j.jenvrad.2025.107726
98	Plastics in Groundwater of Floodplain Aquifers—a Review of Impacts	Gusyev M.	Moniruzzaman M.; Hassan H.B.; Al-Asad H.; Gusyev M.	Sustainable Development Goals Series	1	2025	10.1007/978-981-96-5047-7_10
97	Movement ecology of a large ungulate following human abandonment of areas contaminated by the Fukushima Dai-ichi nuclear acciden	Hinton T.G.	Helen L. Bontrager.; Travis E. Stoakley.; Thomas G. Hinton.; Jeff Hepinstall-Cymerman.; Kei Okuda.; Takehuro Uno.; James C. Beasley.	Environment International	1	Jun-2025	10.1016/j.envint.2025.109616
96	Correspondence on "Fukushima Contaminated Water Risk Factor: Global Implications"	Hinton T.G.; Gusyev M.	Anderson D.; Fujishima Y.; Hinton T.G.; Johansen M.P.; Wainwright H.; Steinhauser G.; Gusyev M.A.; Orr B.; Masuda T.; Bryant P.A.; Donaher S.; Onda Y.; Tsumune D.; Sakaguchi A.; Harshman A.; Johnson T.; Beasley J.C.; Aono T.; Yamasaki S.; Oughton D.; Lind O.C.; Hondros J.; Fisher N.S.; Stephenson W.; Jeffries C.; Tazoe H.; Akata N.; Hosoda M.; Miura T.; Tokonami S.	Environmental Science and Technology, 2025, 59(46), 25113-25115	1	Nov-2025	10.1021/acs.est.5c07456
95	Activity Report of the Emergency Monitoring Committee -Part 1 Trends in International Organizations; [緊急時モニタリング検討委員会の活動報告（1）-国際機関の動向-]	Hirao S.	Tani K.; Sanada T.; Hosoda M.; Yamada T.; Omori Y.; Orita M.; Saito K.; Takeda A.; Tsujiguchi T.; Hirao S.; Hokama T.; Mikami S.	Japanese Journal of Health Physics	1	Jul-2025	10.5453/jhps.60.124
94	Activity Report of the Emergency Monitoring Committee —Part 2: Transition and Long-term Monitoring	Hirao S.	Satoshi MIKAMI, Kimiaki SAITO, Akira TAKEDA, Yasutaka OMORI, Tomonori HOKAMA, Makiko ORITA, Tetsuya SANADA, Kotaro TANI, Takakiyo TSUJIGUCHI, Shigekazu HIRAO, Masahiro HOSODA and Takahiro YAMADA	Japanese Journal of Health Physics, 60 (4), 275-303	1	2025	10.5453/jhps.60.275
93	Effect of radiation	Ishiniwa H.	Ishiniwa H.	The Mammal Society of Japan Eds. Encyclopaedia of Mammals. Maruzen Publishing Co., Ltd., Tokyo, pp.382-383	3	2025	
92	Maternal lineage of rewilded swine in Fukushima contributes to faster introgression in wild boar populations	Ishiniwa H.; Kaneko S.	Anderson D.; Takagi T.; Ishiniwa H.; Kaneko S.	Journal of Forest Research	1	Jan-2026	10.1080/13416979.2026.2619278
91	Transformation of the Chornobyl NPP cooling pond: radioecological situation and its impact on the blood system of small rodents	Ishiniwa H.; Nanba K.	Riabchenko N.; Lypska A.; Rodionova N.; Ishiniwa H.; Nanba K.; Burdo O.	International Journal of Radiation Biology	1	May-2025	10.1080/09553002.2025.2505529
90	Environmental and biological drivers of ^{137}Cs accumulation in freshwater fish across forested and downstream sites in Fukushima	Kakuma M.; Wada T.; Nihei N.	Kakuma M.; Wada T.; Murakami M.; Tatsuno T.; Ishii N.; Kobayashi N.I.; Kurosawa T.; Sayama Y.; Nihei N.; Ohte N.	Journal of Environmental Radioactivity, 290, 107810	1	Sep-2025	10.1016/j.jenvrad.2025.107810
89	Stem diameter dependence of cesium concentration ratio between stem and current-year branches in Quercus serrata	Kanasashi T.	Ohashi S.; Kenzo T.; Miura S.; Sakashita W.; Ohmae Y.; Saito S.; Kanasashi T.	Journal of Forest Research	1	Sep-2025	10.1080/13416979.2025.2567730
88	Role of shredders in the transfer of radiocesium from leaflitter to headwater stream ecosystems in temperate forests	Kanasashi T.; Wada T.	Kanasashi T.; Wada T.	Environmental Pollution, 382, 126723	1	Oct-2025	10.1016/j.envpol.2025.126723
87	Cesium-137 contamination processes in aquatic insects collected in mountain streams: Variations in their diet and body parts	Kanasashi T.; Wada T.	Tsutomu Kanasashi.; Toshihiro Wada.; Takami Morita	KEK Proceedings 2025-2, 24–29	1	2025	
86	Low-dose chronic radiation exposure does not induce oxidative DNA damage in Pinus densiflora a decade after the Fukushima Dai-Ichi nuclear power plant accident	Kaneko S.; Ishiniwa H.	Mizusawa L.; Watanabe Y.; Ishiniwa H.; Kaneko S.	Journal of Forest Research	1	Jan-2026	10.1080/13416979.2026.2630376
85	Genomic signature and evolutionary history of completely cleistogamous lineages in the non-photosynthetic orchid Gastrodia	Kaneko S.	Suetsugu K.; Hirota S.K.; Makino T.; Suyama Y.; Kaneko S.; Fukushima K.	Proceedings of the Royal Society B: Biological Sciences	1	May-2025	10.1098/rspb.2025.0574
84	Genetic Diversity and Population Structure of the Japanese Serow (Capricornis crispus) in Gunma Prefecture Based on Mitochondrial DNA Control Region Sequences	Kaneko S.	Tanaka K.; Nagatomo M.; Oouchi R.; Minami M.; Nomura K.; Kaneko S.; Isagi Y.; Kitamura J.-I.; Noguchi H.; Anezaki T.	Zoological Science	1	Apr-2025	10.2108/zs240006
83	Detection of De Novo Mutations by Sequencing Reduced Representation Libraries	Kaneko S.	Ueno S.; Hasegawa Y.; Kato S.; Uchiyama K.; Kaneko S.	Methods in Molecular Biology	1	May-2025	10.1007/978-1-0716-4574-1_14
82	DYNAMIC ESTIMATION OF INDIRECT ECONOMIC DAMAGES CAUSED BY FUTURE FLOODING IN THE IWAKI DISTRICT	Kawagoe S.	Tan J.; Kawagoe S.	Journal of Japan Society of Civil Engineers	1	Mar-2026	10.2208/journalofjsce.25-27030
81	流域のあらゆるステークフォルダーをつなぐ貯留の環境情報の開発 (Development of environmental information on water retention that connects all stakeholders within the watershed)	Kawagoe S.	Kawagoe S.	Environmental Information Science, 54, 32-37	1	2025	

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80	Floodplain contamination as a proxy for long-term changes in Chernobyl-derived 137Cs in river basin	Konoplev A	Ivanov M.M.; Golosov V.; Konoplev A.; Ivanova N.	Journal of Environmental Management 391, 126558	1	Sep-2025	10.1016/j.jenvman.2025.126558
79	Seasonal variations within the long-term decline of Chernobyl-derived dissolved 137Cs in Kyiv dam reservoir	Konoplev A.; Wakiyama Y.; Nanba K.	Konoplev A.; Kanivets V.; Wakiyama Y.; Igarashi Y.; Protsak V.; Hinchuk T.; Nanba K.	Journal of Environmental Chemical Engineering. 14, 120636	1	Feb-2026	10.1016/j.jece.2025.120636
78	Many-Years Dynamics and Seasonal Fluctuations of Dissolved Radiocesium in a Pond in the Vicinity of the Fukushima Daiichi NPP	Konoplev A.V.; Wakiyama Y.; Nanba K.	Konoplev A.V.; Wakiyama Y.; Igarashi Y.; Golosov V.N.; Nanba K.	Radiochemistry, 67 (6), 947-953	1	Dec-2025	10.1134/S1066362225060220
77	Infection with the endonuclear symbiotic bacterium Holospora obtusa reversibly alters surface antigen expression of the host Paramecium caudatum	M Fujishima.	M Fujishima.	Microorganisms, 13(5), 991	1	2025	10.3390/microorganisms13050991
76	Soil-to-plant transfer and radiological risk assessment of naturally occurring radionuclides in vegetables from Ilorin, Nigeria	Michael Orosun M.; Nanba K.; Yoschenko V.	Michael Orosun M.; Bello S.; Olawale Akande I.; Victor Targema T.; Mariam Shiru R.; Nanba K.; Yoschenko V.	Journal of Environmental Radioactivity 291, 107843	1	Jan-2026	10.1016/j.jenvrad.2025.107843
75	Trapline foraging by nectar-collecting hornets	Nanba K.	Lacombrade M.; Abenis K.; Doussot C.; Goulefert L.; Nanba K.; Bonzom J.-M.; Lihoreau M.	Animal Cognition 28:30	1	Dec-2025	10.1007/s10071-025-01952-3
74	Environmental radioactivity impacts bioenergetic in tree frog of Fukushima	Nanba K.; Ishiniwa H.; Wada T.	Dasque L.; Roussel D.; Bonzom J.-M.; Armant O.; Car C.; Nanba K.; Ishiniwa H.; Wada T.; Miura I.; Gardette V.; Camilleri V.; Simon L.; Delignette-Muller M.-L.; Frelon S.; Mondy N.	Environmental Pollution, 385, 127147	1	Nov-2025	10.1016/j.envpol.2025.127147
73	A cohort study of sustainable cultivation methods in mandarin orange orchards across Japan	Nihei N	Fujiwara F.; Okano Y.; Takata D.; Maruyama H.; Arakawa R.; Kobayashi N.I.; Kumaishi K.; Narukawa M.; Nose Y.; Isawa T.; Shinano T.; Miyazawa K.; Nihei N.; Ichihashi Y.	Plant Biotechnology	1	2025	10.5511/plantbiotechnology.25.0605a
72	Distribution of cesium-bearing microparticles in the paddy field and their effect on transfer factor of radioactive cesium for brown rice	Nihei N.	Tatsuno T.; Nihei N.; Yoshimura K.	Journal of Radioanalytical and Nuclear Chemistry	1	Aug-2025	10.1007/s10967-025-10312-x
71	High-resolution monitoring and modeling of subsurface CO_2 dynamics in soybean field	Nihei N.	Hamamoto S.; Saito H.; Matsunami H.; Nihei N.; Ichihashi Y.; Tatsuno T.; Moldrup P.; Nishimura T.	Geoderma	1	Nov-2025	10.1016/j.geoderma.2025.117578
70	Cesium accumulation in nodules is involved in mitigating cesium transfer to shoot	Nihei N.	Murashima K.; Nihei N.; Okuma N.; Maruyama H.; Watanabe T.; Shinano T.	Scientific Reports	1	Dec-2025	10.1038/s41598-025-28137-9
69	Factors controlling dissolved ^{137}Cs activities in Matsukawa-ura lagoon, a semi-closed estuary, after the Fukushima accident.	Niida T.; Takata H.; Wada T.	Niida T.; Takata H.; Watanabe S.; Namura S.; Wada T.	Preprint egusphere-2025-2436	1	2025	
68	A Novel Food-Derived Particle Enhances Sweet and Salty Taste Responses in Mice	Ogata M.	Kawabata Y.; Yamazoe J.; Imamura E.; Nagasato Y.; Lee Y.; Shinoda M.; Koda K.; Tomita Y.; Ito H.; Takai S.; Sanematsu K.; Ogata M.; Kono H.; Shigemura N.	Nutrients	1	Jan-2026	10.3390/nu18010098
67	Fabrication of PMMA particles with surface-immobilized polyglutamate containing sialoglycans and encapsulated Fe3O4 nanoparticles	Ogata M.	Matsuda A.; Nagai T.; Wada Y.; Anazawa R.; Tanaka Y.; Ogata M.; Sato K.; Kobayashi Y.; Yamauchi N.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	1	Nov-2025	10.1016/j.colsurfa.2025.137455
66	Thermoresponsive hydrogelation of N-acetyl chitohexaose: Gelation mechanism and application in controlled protein release	Ogata M.	Kono H.; Nagaoka Y.; Izutsu A.; Kita S.; Maenaka K.; Nishio S.; Hattori T.; Yoshikawa Y.; Michishita K.; Usui T.; Isono T.; Ogata M.	Carbohydrate Polymers	1	Oct-2025	10.1016/j.carbpol.2025.123897
65	Contamination level, health risk assessment and Monte Carlo probabilistic models of trace metals in outdoor dust in different functional areas in Ondo City, Southwestern, Nigeria.	Orosun M.M.	Ayeku P.O.; Ogundele L.T.; Anuoluwa I.A.; Orosun M.M.; Ajibare A.O.; Akinsemolu A.O.; Ogunniya F.F.	EQA	1	Oct-2025	10.60923/issn.2281-4485/22614
64	Radon contamination and risk evaluation in surface and groundwater around a Nigerian university campus using deterministic and Monte Carlo simulation methods	Orosun M.M.	Okeyode I.C.; Adeyemi A.L.; Orosun M.M.; Isinkaye M.O.	Discover Environment 3, 280	1	Dec-2025	10.1007/s44274-025-00484-4
63	Assessment of radioactivity levels and health hazards in welding electrodes using spectrometric and statistical methods	Orosun M.M.	Ndoma E.G.; George N.J.; Ekanem A.M.; Orosun M.M.; Ahamad T.; Adesina K.E.; Kaur S.; Bello S.; Akinyemi A.; Agbo E.; Essiett A.	Journal of Environmental Radioactivity, 290, 107809	1	Nov-2025	10.1016/j.jenvrad.2025.107809
62	Geospatial assessment of background radiation due to ^{238}U, ^{232}Th, and ^{40}K, in selected locations in Ondo and Osun States using aeroradiometric technique	Orosun M.M.	Morakinyo R.O.; Usikalu M.R.; Adagunodo T.A.; Ojo O.F.; Orosun M.M.	Environmental Monitoring and Assessment 198, 167	1	2026	
61	Geospatial distributions of natural radioactivity in Kwara state, Nigeria using airborne gamma ray spectrometry data	Orosun M.M.	Adeyemi A.A.; Orosun M.M.; Salawu N.B.	Discover Environment 3, 289	1	2025	
60	Health risk assessments of heavy metals in dust samples collected from classrooms in Ilorin, Nigeria and its impact on public health	Orosun M.M.	Okoro H.K.; Orosun M.M.; Agboola A.F.; Emenike E.C.; Nanduri S.; Kedia N.; Kariem M.; Priya A.; Rab S.O.	Heliyon	1	Feb-2025	10.1016/j.heliyon.2025.e42769
59	Nigeria's sustainable energy future: NECAL 2050 simulations of low carbon pathways	Orosun M.M.	Bello S.; Orosun M.M.	Environment, Development and Sustainability (2025)	1	Jul-2025	10.1007/s10668-025-06687-2
58	Activity levels and radiological hazards of chemical fertilizers used for farm crops in Ondo city, Southwest, Nigeria	Orosun M.M.	Ogundele L.T.; Orosun M.M.; Akiniran S.; Ayeku P.O.	Nuclear Analysis, 5, 100201	1	Mar-2026	10.1016/j.nucana.2025.100201
57	Probabilistic health risk assessment of heavy metals in vegetables cultivated near tin mining sites in Jos Plateau State, Nigeria	Orosun M.M.	Falae T.T.; Ossai C.P.; Orosun M.M.; Abdulai P.M.; Udom G.J.; Nduka J.K.; Offor C.C.; Orisakwe O.E.	Journal of Hazardous Materials Advances	1	Nov-2025	10.1016/j.hazadv.2025.100934
56	Radiological and elemental hazards of informal gold mining at OAU: health risk modelling with spectrometric and probabilistic indices	Orosun M.M.	Olise F.S.; Ogundele L.T.; Omowumi N.O.; Olukotun S.F.; Orosun M.M.	Environmental Geochemistry and Health	1	Feb-2026	10.1007/s10653-026-03046-6
55	Radiological impact assessment of produced water from oilfield production facilities in the Niger Delta region	Orosun M.M.	Joledo A.O.; Orosun M.M.; Ademola T.	Nuclear Analysis, 4, 100174	1	Jun-2025	10.1016/j.nucana.2025.100174
54	Deterministic and probabilistic radiological risks associated with gold mining activities in some villages along Jibia Niger–Nigeria border	Orosun M.M.	Bello S.; Orosun M.M.	Environmental Geochemistry and Health 47, 458	1	Nov-2025	10.1007/s10653-025-02761-w
53	Highly Stable Perovskite Solar Cells Using Graphene and its Derivatives: A Review	Rahman I.	Hasan M.A.; Suhi T.S.C.; Hossain M.R.; Rahman M.R.; Khandaker M.U.; Rahman I.; Chowdhury F.I.	Advanced Materials Interfaces, 13	1	Jan-2026	10.1002/admi.202500855
52	Biodegradable graphene nanocomposites as functional biomaterials: a review of their role in controlled drug delivery and tissue engineering	Rahman I.	Mohiuddin M.; Rahman M.M.; Uddin M.N.; Hasan R.; Rahman I.	RSC Advances, 15, 45387–45416	1	Oct-2025	10.1039/d5ra06280b
51	Sustainable production of reduced graphene oxide using Citrus macroptera peel extract: adsorption capacity assessment	Rahman I.	Rakib M.R.H.; Saha P.; Islam M.S.; Rahman I.; Mahiuddin M.	Biomass Conversion and Biorefinery, 16, 7	1	Jan-2026	10.1007/s13399-025-07047-w
50	First-principles study of lead-free Rb2LiTlCl6 double perovskite: Structural, electronic, optical, and mechanical properties	Rahman I.	M.A. Hasan.; Rahman I.; M.U. Khandaker.; P.K. Singh.; F.I. Chowdhury.	Next Research, 2, 100408	1	2025	
49	Source, fate and transfer of primordial radionuclides as potential contaminants in environmental matrices of high and low background radiation areas – a critical review	Rahman I.	B. Santhanabharathi.; K.P. Pradhoshini.; M.S. Ahmed.; M. Priyadharshini.; M.H.S. Parveen.; L. Alam.; Rahman I.; V.H. Duong.; M.U.D. War.; M.S. Musthafa.	International Journal of Environmental Analytical Chemistry, 105, 954–980	1	2025	
48	Remediation of per- and polyfluoroalkyl substances (PFAS): A critical review of graphene-based photocatalysis as a sustainable solution	Rahman I.	Ifte M.R.I.; Ahmed M.K.; Hossain M.K.; Rahman M.R.; Rahman I.; Chowdhury F.I.	Journal of Water Process Engineering, 81, 109329	1	Jan-2026	10.1016/j.jwpe.2025.109329
47	Radiological risk assessment of primordial radionuclides in sediment: A case study of southeast Chennai, Tamil Nadu, India	Rahman I.	Priyadharshini M.; Ahmed M.S.; Chandrasekaran A.; Santhanabharathi B.; Pradhoshini K.P.; Murugavel A.; Duong V.-H.; Rahman I.; Musthafa M.S.	Regional Studies in Marine Science, 94, 104731	1	Feb-2026	10.1016/j.rsma.2025.104731
46	Synthesis and characterization of Ag-doped TiO2 nanoparticle and evaluation of its photocatalytic activity in the degradation of p-nitrophenol	Rahman I.	Hossain M.K.; Hossain M.M.; Chowdhury F.I.; Ripon R.I.; Rahman I.; Akhtar S.	Next Nanotechnology, 8, 100272	1	Jan-2025	10.1016/j.nxnano.2025.100272
45	Towards greener reduced graphene oxide: a critical review of environmentally driven reduction strategies	Rahman I.	Monir M.S.I.; Rahman A.; Saha P.; Rahman I.; Mahiuddin M.	RSC Advances, 16, 2044–2061	1	Dec-2025	10.1039/d5ra08914j

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44	Environmentally sustainable synthesis of reduced graphene oxide using Piper chaba stem extract and its adsorbent efficacy towards wastewater treatment	Rahman I.	Rakib M.R.H.; Mahiuddin M.; Habib M.A.; Chakrabarty S.; Kundu R.; Karim K.M.R.; Rahman I.; Saha P.	Results in Chemistry, 20, 103034	1	Feb-2026	10.1016/j.rechem.2026.103034
43	Monolithic vs. particle-based solid-phase extraction for selective separation of lead from aqueous matrices	Rahman I.	Sarker P.; Rahman I.; Yunoshita K.; Alam M.F.; Furusho Y.; Mashio A.S.; Hasegawa H.	Environmental Science: Advances, 5, 118–128	1	Jan-2026	10.1039/d5va00057b
42	Assessment of gross alpha, gross beta, 210Po, and 210Pb in rice and their associated health risks in Tamil Nadu, India: A baseline study	Rahman I.	Priyadharshini M.; Santhanabharathi B.; Chandrasekaran A.; Ahmed M.S.; Pradhoshini K.P.; Aarthi M.; Duong V.-H.; Nguyen X.-Q.; Rahman Z.; Rahman I.; Musthafa M.S.	Applied Radiation and Isotopes, 226, 112253	1	Dec-2025	10.1016/j.apradiso.2025.112253
41	Modeling sorption kinetics in environmental separations: Advancing beyond traditional pseudo-order approaches	Rahman I.	Rocky M.M.H.; Rahman I.; Yoshioka S.; Keya J.A.; Wong K.H.; Mashio A.S.; Hasegawa H.	Separation and Purification Technology, 383, 135987	1	Mar-2026	10.1016/j.seppur.2025.135987
40	Studies on Vanadate(V) Complexes of an N-Pendent Cyanoethyl Derivative of Octamethyl-Tetraaza Macrocyclic Chelator	Rahman I.	Roy M.R.; Rabi S.; Paul P.; Biswas F.B.; Palit D.; Rahman I.; Roy T.G.	Asian Journal of Chemistry, 37, 2697–2702	1	Oct-2025	10.14233/ajchem.2025.34504
39	Assessing trace metal based human health risks in the highly consumed vegetables collected from the industrialized zones of Bangladesh	Rahman I.	Sadia U.; Islam M.N.; Hoque M.A.; Tanbi T.A.; Asha S.M.A.A.; Howlader S.; Sarker N.; Islam S.; Rahman I.; Bandyopadhyay A.; Ganguli S.	Environmental Geochemistry and Health, 48, 21	1	Jan-2026	10.1007/s10653-025-02907-w
38	Potentially toxic elements in the Bangladeshi diet: An assessment of plant-based foods from a rural market	Rahman I.	Mamun S.A.; Ferdush J.; Islam A.; Das Sowmya S.; Robinson B.H.; Rahman I.	Toxicology Reports, 15	1	Dec-2025	10.1016/j.toxrep.2025.102142
37	Radiological profiling of modern building materials: A case study of natural radionuclides in vitrified tiles from Tamil Nadu, India and their health implications	Rahman I.M.M.	Chandrasekaran A.; Rahman I.M.M.	Nuclear Engineering and Technology, 57, 103754	1	Nov-2025	10.1016/j.net.2025.103754
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