

Anthropogenic gadolinium in tap water and in tap water franchises in six major cities in Germany

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Understanding Rare Earth Elements concentrations, anomalies and fluxes at the river basin scale: The Moselle River (France) as a case study. <i>Science of the Total Environment</i> , 2020, 742, 140619.	8.0	35
2	Magnetic resonance imaging diagnosis of subependymal giant cell astrocytomas in follow-up of children with tuberous sclerosis complex: should we always use contrast enhancement?. <i>Pediatric Radiology</i> , 2020, 50, 1397-1408.	2.0	7
3	Biosorption of Rare Earth Elements by Different Microorganisms in Acidic Solutions. <i>Metals</i> , 2020, 10, 954.	2.3	15
4	Ultra-trace Element Characterization of the Central Ottawa River Basin using a Rapid, Flexible, and Low-volume ICP-MS Method. <i>Aquatic Geochemistry</i> , 2020, 26, 327-374.	1.3	10
5	Anthropogenic gadolinium in freshwater and drinking water systems. <i>Water Research</i> , 2020, 182, 115966.	11.3	70
6	Consensus Guidelines of the French Society of Neuroradiology (SFNR) on the use of Gadolinium-Based Contrast agents (GBCAs) and related MRI protocols in Neuroradiology. <i>Journal of Neuroradiology</i> , 2020, 47, 441-449.	1.1	13
7	Corbicula fluminea: A sentinel species for urban Rare Earth Element origin. <i>Science of the Total Environment</i> , 2020, 732, 138552.	8.0	28
8	Direct MR arthrography of the shoulder: current practice in the UK. <i>Radiologia Medica</i> , 2020, 125, 605-608.	7.7	2
9	Brain MRIs make up the bulk of the gadolinium footprint in medical imaging. <i>Journal of Neuroradiology</i> , 2020, 47, 259-265.	1.1	17
10	Gadolinium footprint: Cradle to cradle?. <i>Journal of Neuroradiology</i> , 2020, 47, 247-249.	1.1	9
11	Investigation of pollution levels originated from anthropogenic gadolinium in Ankara Stream. <i>Environmental Science and Pollution Research</i> , 2020, 27, 23677-23685.	5.3	12
12	Speciation analysis of Gadolinium-based contrast agents using aqueous eluent-hydrophilic interaction liquid chromatography hyphenated with inductively coupled plasma-mass spectrometry. <i>Talanta</i> , 2021, 222, 121531.	5.5	11
13	Lifecycle of Gadolinium-Based Contrast Agents. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 1295-1299.	3.4	3
14	Determination of rare earth elements concentrations in natural waters – A review of ICP-MS measurement approaches. <i>Talanta</i> , 2021, 221, 121636.	5.5	37
15	Toxicity associated with gadolinium-based contrast-enhanced examinations. <i>AIMS Biophysics</i> , 2021, 8, 198-220.	0.6	5
16	Pseudoprogression versus true progression in glioblastoma patients: A multiapproach literature review. Part 2 – Radiological features and metric markers. <i>Critical Reviews in Oncology/Hematology</i> , 2021, 159, 103230.	4.4	32
17	Anthropogenic gadolinium in estuaries and tropical Atlantic coastal waters from Fortaleza, Northeast Brazil. <i>Applied Geochemistry</i> , 2021, 127, 104908.	3.0	7
18	Overlapping roles of NADPH oxidase 4 for diabetic and gadolinium-based contrast agent-induced systemic fibrosis. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, F617-F627.	2.7	3

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19	Evidence of Anthropogenic Gadolinium in Triangle Area Waters, North Carolina, USA. <i>Water</i> (Switzerland), 2021, 13, 1895.	2.7	4
20	Rare Earth Element Accumulation and Fractionation in a Lake Ecosystem Impacted by Past Uranium Mining. <i>Archives of Environmental Contamination and Toxicology</i> , 2021, 81, 589-599.	4.1	2
21	Enhanced Rare Earth Element Mobilization in a Mountain Watershed of the Colorado Mineral Belt with Concomitant Detection in Aquatic Biota: Increasing Climate Change-Driven Degradation to Water Quality. <i>Environmental Science & Technology</i> , 2021, 55, 14378-14388.	10.0	8
22	Anthropogenic gadolinium as a tracer of raw sewage in surface water. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	6
23	Water treatment of polluted rivers in cities based on biological filter technology. <i>Environmental Technology and Innovation</i> , 2021, 23, 101544.	6.1	6
24	Collaborative determination of trace element mass fractions and isotope ratios in AQUA-1 drinking water certified reference material. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 4959-4978.	3.7	10
25	The Use of Gadolinium in Musculoskeletal MRI—Time to Rethink?. <i>Indian Journal of Radiology and Imaging</i> , 2021, 31, 635-643.	0.8	5
26	The potential environmental risks associated with the development of rare earth element production in Canada. <i>Environmental Reviews</i> , 2021, 29, 354-377.	4.5	36
27	Multi-proxy approaches to investigate cyanobacteria invasion from a eutrophic lake into the circumjacent groundwater. <i>Water Research</i> , 2021, 204, 117578.	11.3	10
28	Evidence of high bioaccessibility of gadolinium-contrast agents in natural waters after human oral uptake. <i>Science of the Total Environment</i> , 2021, 793, 148506.	8.0	10
29	Assessing the bioavailability of dissolved rare earths and other trace elements: Digestion experiments with aquatic plant species <i>Lemna minor</i> (‘‘duckweed’’ reference standard BCR-670). <i>Applied Geochemistry</i> , 2021, 134, 105025.	3.0	8
30	Anthropogenic Gadolinium Accumulation and Rare Earth Element Anomalies of River Water from the Middle Reach of Yangtze River Basin, China. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 3130-3139.	2.7	18
31	Revision of the ESUR Guidelines and Other Recent Topics. <i>Japanese Journal of Magnetic Resonance in Medicine</i> , 2020, 40, 55-61.	0.0	0
32	Anthropogenic Gd in urban river water. <i>Elementa</i> , 2021, 9, .	3.2	12
33	Urban geochemistry and human-impacted imprint of dissolved trace and rare earth elements in a high-tech industrial city, Suzhou. <i>Elementa</i> , 2021, 9, .	3.2	11
34	Anthropogenic rare earth elements in urban lakes: Their spatial distributions and tracing application. <i>Chemosphere</i> , 2022, 300, 134534.	8.2	24
35	Development and validation of seaFAST-ICP-QMS method for determination of rare earth elements total concentrations in natural mineral waters. <i>Food Chemistry</i> , 2022, 388, 133008.	8.2	1
36	Capabilities of size exclusion chromatography (in off- and on-line modes) to reduce matrix effects in ICP-MS analysis of complex solutions. <i>Zavodskaya Laboratoriya Diagnostika Materialov</i> , 2022, 88, 10-20.	0.5	0

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37	Naturally grown duckweeds as quasi-hyperaccumulators of rare earth elements and yttrium in aquatic systems and the bioavailability of gadolinium-based MRI contrast agents. <i>Science of the Total Environment</i> , 2022, 838, 155909.	8.0	4
38	Metabolic activity diffusion imaging (MADI): I. Metabolic, cytometric modeling and simulations. <i>NMR in Biomedicine</i> , 2023, 36, .	2.8	6
39	Radiomics and deep learning for myocardial scar screening in hypertrophic cardiomyopathy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022, 24, .	3.3	9
40	Gadolinium based contrast agents (GBCAs): Uniqueness, aquatic toxicity concerns, and prospective remediation. <i>Journal of Contaminant Hydrology</i> , 2022, 250, 104057.	3.3	7
41	Occurrence, bio-concentration and distribution of rare earth elements in wild mushrooms. <i>Science of the Total Environment</i> , 2022, 851, 158159.	8.0	11
42	Development of a fully automatic separation system coupled with online ICP-MS for measuring rare earth elements in seawater. <i>RSC Advances</i> , 2022, 12, 24003-24013.	3.6	2
43	Gadolinium Accumulation and Toxicity on In Vitro Grown <i>Stevia rebaudiana</i> : A Case-Study on Gadobutrol. <i>International Journal of Molecular Sciences</i> , 2022, 23, 11368.	4.1	1
44	The translocation pathways of rare earth elements from the environment to the food chain and their impact on human health. <i>Chemical Engineering Research and Design</i> , 2022, 168, 205-223.	5.6	13
45	Electrochemical degradation of contrast media. <i>Current Opinion in Electrochemistry</i> , 2023, 37, 101169.	4.8	1
46	Trace and rare earth element distribution in hyperalkaline serpentinite-hosted spring waters and associated authigenic carbonates from the Ronda peridotite. <i>Applied Geochemistry</i> , 2022, 147, 105492.	3.0	3
47	Comment on: "Family and species as determinants modulating mineral composition of selected wild-growing mushroom species" by Mleczek et al., https://doi.org/10.1007/s11356-020-10508-6 . <i>Environmental Science and Pollution Research</i> , 2022, 29, 89796-89800.	5.3	7
48	Comment on "Worldwide basket survey of multielemental composition of white button mushroom <i>Agaricus bisporus</i> ": The credibility of the concentration data reported for REE are questioned "are they reliable enough to be included in the database on nutrients in mushrooms?". <i>Chemosphere</i> , 2023, 310, 136857.	8.2	9
49	Analytical strategies to measure gadolinium as a wastewater marker in surface and groundwater systems. <i>MethodsX</i> , 2023, 10, 101965.	1.6	1
50	Non-Contrast-Enhanced MR Arteriography of Potential Living-Related Liver Donor: Using Contrast Enhanced CT Arteriography as Standard Reference. <i>Journal of Magnetic Resonance Imaging</i> , 0, , .	3.4	2
51	Relationship between gadolinium-based MRI contrast agent consumption and anthropogenic gadolinium in the influent of a wastewater treatment plant. <i>Science of the Total Environment</i> , 2023, 877, 162844.	8.0	1
52	Efficacy and Safety of Gadopiclesol for Contrast-Enhanced MRI of the Central Nervous System. <i>Investigative Radiology</i> , 2023, 58, 307-313.	6.2	18
53	Investigation of anthropogenic gadolinium in tap water of polish cities: Gdańsk, Kraków, Warszawa, and Wrocław. <i>Environmental Pollution</i> , 2023, 323, 121289.	7.5	3
54	European fluxes of medical gadolinium to the ocean: A model based on healthcare databases. <i>Environment International</i> , 2023, 173, 107868.	10.0	6

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55	Reducing contrast agent residuals in hospital wastewater: the GREENWATER study protocol. <i>European Radiology Experimental</i> , 2023, 7, .	3.4	7
56	Efficacy and Safety of Half-Dose Gadopichlenol versus Full-Dose Gadobutrol for Contrast-enhanced Body MRI. <i>Radiology</i> , 2023, 308, .	7.3	5
57	Critical review of rare earth elements (REE) in cultivated macrofungi. <i>Food Control</i> , 2024, 155, 110085.	5.5	3
58	The new era hypothesis of coastal degradation: G(s) elements” gallium, gadolinium, and germanium. <i>Environmental Geochemistry and Health</i> , 0, , .	3.4	0
59	Environmental Sustainability and <sc>MRI</sc>: Challenges, Opportunities, and a Call for Action. <i>Journal of Magnetic Resonance Imaging</i> , 0, , .	3.4	3
60	The role of gadolinium-based contrast agents in magnetic resonance imaging structured reporting and data systems (RADS). <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2024, 37, 15-25.	2.0	1
61	Rare earth elements in alkaline Lake Neusiedl, Austria, and the use of gadolinium microcontamination as water source tracer. <i>Applied Geochemistry</i> , 2023, , 105792.	3.0	0
62	Gadolinium-Free Cardiac MRI Myocardial Scar Detection byÂ4D Convolution Factorization. <i>Lecture Notes in Computer Science</i> , 2023, , 639-648.	1.3	0
64	Sensitive and accurate determination of REEs using a high-efficiency miniaturized ultrasonic nebulization sampling system coupled with the inductively coupled plasma mass spectrometer. <i>Journal of Analytical Atomic Spectrometry</i> , 0, , .	3.0	0
65	A Comprehensive Overview of the Efficacy and Safety of Gadopichlenol: A New Contrast Agent for MRI of the CNS and Body. <i>Investigative Radiology</i> , 0, , .	6.2	0
66	Associations between maternal urinary rare earth elements during pregnancy and birth weight-for-gestational age: Roles of cord blood vitamin D levels. <i>Science of the Total Environment</i> , 2024, 912, 169222.	8.0	0
67	Rare earth elements and yttrium in shells of invasive mussel species from temperate rivers in Central Europe: Comparison between <i>C. fluminea</i> , <i>D. bugensis</i> , and <i>D. polymorpha</i> . <i>Chemical Geology</i> , 2024, 648, 121878.	3.3	0
68	Review of strategies to reduce the contamination of the water environment by gadolinium-based contrast agents. <i>Insights Into Imaging</i> , 2024, 15, .	3.4	0
69	Rare earth contamination of edible vegetation: Ce, La, and summed REE in fungi. <i>Applied Microbiology and Biotechnology</i> , 2024, 108, .	3.6	0
70	A review of endocrine disrupting chemicals migration from food contact materials into beverages. <i>Chemosphere</i> , 2024, 355, 141760.	8.2	0