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114	Development of an Integrated Optical Monitoring and Remote Injection System to Enhance Bioremediation Efficiency for Chlorinated-Solvent Contaminated Groundwater Sites: A Case Study in Taiwan	Wei-HSIANG Huang[1], Bo-Kai Chen[1], Wei-Ci Li[1], Ruei-Hao Shie[1], Kun-Ching Cho[1], Fang-Yu Hwu [1], Shu-Yu Liu[1], Hsin-Lan Hsu[1], Shu-Jen Chen[1], Hou-Peng Wan Wan[2]	[1]Industrial Technology Research Institute/Green Energy & Environment Research Laboratories, [2]ndustrial Technology Research Institute/Green Energy & Environment Research Laboratories
115	Gaining insight into the role of nematode community structures in the regeneration of forest soil following fire events	Tesleem Bello[1]	[1]Federal College of Education Abeokuta
117	Decoding Coal Tar's Hidden Clues: Advanced Forensic Analysis of PAHs and Alkylated Derivatives for Smarter Waste Classification at Contaminated Land Sites	Ken Scally[1]	[1]Normec DETS
120	Preliminary study on the influence of temperature and coal content on benzene mobility in coal waste dumps: implications for health risk assessment in Wallonia (Belgium)	'- Foucart[1], - Lambert[1], - Luthers[1], - le Bussy[1], - Kaison[1], - Gohy[1], - Fays[1], - Collart[1]	[1]ISSeP
123	Winsor III microemulsion for the mobilization of pure phae organic pollutants from saturated porous media	Berardino Barbati[1], Laura Lorini[1], Marco Bellagamba[2], Luca Calisi[2], Marco Petrangeli Papini[1]	[1]Chemistry Deparment, Sapienza University of Rome, [2]Chimec S.p.A.
139	Rapid evaluation of nitrate from soil pore water for real-time decision making in a drip irrigation agricultural system of Southern Spain	Meritxell Grau Butinyac[1], Joaquín Castejón[2], Pedro Mínguez Alcaraz[2], Eoin Murray[1]	[1]T.E. Laboratories Ltd. (TelLab), Carlow, Ireland, [2]C.D.T.A El Mirador, Murcia, Spain
153	Harnessing the sustainable potential of groundwater in Saudi Arabia via remote sensing	Mohammed AlRayaan[1], Fahad Alghamdi[1]	[1]Saudi Aramco
155	Scaling up phytomanagement in Wallonia: insights from the WALLPHY project to support large-scale applications on a pilot demonstration site	Florian Liénard[1], Laurence Haouche[1]	[1]Institut Scientifique de Service Public
161	MICROSENSE : Development of a novel microbial bioindicator/biomarker to evaluate biodegradation potential of micro- and macro pollutants in environmental matrices (soil and water)	Gilles Quabron[1], Charlotte Balent[1]	[1]CEBEDEAU
163	Assessment of dimethachlor and metabolites as a long-term source of groundwater contamination	Annika S. Fjordbøge[1], Klaus Mosthaf[1], Poul L. Bjerg[1]	[1]Department of Environmental and Resource Engineering, Technical University of Denmark
164	Plant species evaluation for energy crop production and phytoremediation of hydrocarbon-impacted soils under mediterranean climate (Spain).	Alba Catalan Merlos[1], Romina Mariel Gargarello[1], Francesca Audiño[1], Natàlia Blázquez-Pallí[2], Foix Soler-Balaguer[2], David Garriga[2], Marçal Bosch[2], Sonia Sanchis[1]	[1]Leitat Technological Center, [2]LITOCLEAN S.L
167	Insights and pitfalls in the remediation and redevelopment strategy for blackfield number 1 in Belgium: former Arsenic Plant in Bocholt	Sylvie Seurinck[1], Reinout Van Loon[2], Inge De Vrieze[3], Katleen Jansen[3], Ederic Keirsebelik[2], Koen Meskens[2], Gunther De Becker[2], Pieter Bangels[1], Marijke Verhasselt[1], Beatrijs Lambié[1]	[1]Antea Group, [2]DEME Environmental, [3]Flemish Waste Agency (OVAM)
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176	Introducing the German BMBF funding measure on “Sustainable Groundwater Management” (LURCH)	Sarah Fieger[1], Thomas Track[1]	[1]DECHEMA e.V.
179	Advanced investigation strategies for PFAS contamination: insights from a firefighting training site in Flanders	Wim Vansina[1], Pieter Buffel[2], Marjan Joris[3], Erik Bosmans[3]	[1]Witteveen+Bos Belgium NV, [2]EnISSA Belgium, [3]iFLUX Belgium
180	Leaching of Arsenic Released from Excavated Rock with Atmospheric Exposure under Unsaturated Water Migration	Noriko Manabe[1], Masahiko Katoh[1]	[1]Meiji University
182	Earth observation-based solution for monitoring water reservoirs in Sahel	JM Palmaerts[1], X Traoré[2], J Hallot[1]	[1]ISSeP, Liège, Belgium, [2]INERA, Ouagadougou, Burkina Faso
184	Reducing leaching of contaminants to groundwater through nature-based solutions: Phytocapping	Maurizio Beretta [1]	[1]Stantec S.p.A.
186	The strength of ECI (Early Contractor Involvement) for the remediation of a former oil terminal at Bowling near Glasgow.__PRESENT	Stany Pensaert[1]	[1]DEME
188	Sorption and desorption characteristics of PFOS and PFOA by treated soil chemically removed organic matter and oxides.	Yuto Yoshida[1], Hidenori Matsukami[2], Hirofumi Sakanakura[2], Masahiko Katoh[3]	[1]Meiji University Graduate School, [2]National Institute for Environmental Studies, [3]Meiji University
190	Endophytes-stimulated phytoremediation of zinc in the topsoil of a scatter field	Stephanie Vandionant[1], Martin Slooijer[2], John Dijk[1], Remi Peters[3], Christopher Cohu[4], Renee Murphy[4]	[1]GreenSoil B.V., [2]GreenSoil International B.V., [3]GreenSoil International B. V., [4]Intrinsyx Environmental
191	Automated Mapping of Japanese Knotweed along the River Ourthe for Eradication Planning and Cost Estimation	Coraline Wyard[1], Elisa Colin[2], Eric Hallot[1]	[1]Institut Scientifique de Service Public (ISSeP), [2]UMons

195	Diagnosis of wastewater treatment plants (WWTPs) efficiency for the treatment of microplastics (MP) in Wallonia, Belgium: methods and results	Audrey Joris[1]	[1]ISSeP
198	New device for the direct quantification and continuous monitoring of groundwater discharge to streams	Goedele Verreydt[1], Niels van Putte[1], Gregory Lemaire[2], Klaus Mosthaf[2], Cecilie F. Ottosen[2], Mette M. Broholm[2], Poul L. Bjerg[2]	[1]iFLUX, [2]Technical University of Denmark
204	Assessing circularity of contaminated sites remediation activities in the ex-ante and ex-post phases in compliance with the latest standards	Antonio Sellitri[1], Lisa Pizzol[1], Angela Bonfà[2], Giulia Meneghin[2], Martina Menegaldo[1], Petra Scanferla[2], Alex Zabeo[1], Sarah Devecchi[3], Paul Bardos[4], Elena Semenzin[3]	[1]GreenDecision srl, Cannaregio 5904, 30121 Venezia (VE), Italy, [2]Fondazione Università Ca' Foscari, Ca' Dolfin – Calle Larga Ca' Foscari, Dorsoduro 3859/A, 30123 Venezia, Italy , [3]Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice, Scientific Campus, via Torino 155, 30172 Mestre, VE, Italy , [4]r3 Environmental Technology Ltd, 37 St Peter's Ave, Caversham, Reading RG4 7DH
205	Impact of nematodes on N_2O emissions from soils amended with organic materials of varying quality	Malaika Mariana Andrade[1], Junwei Hu[1], Stefaan De Neve[1]	[1]Ghent University
209	Reactive ZVI-biochar for chlorinated ethylene remediation in groundwater aquifers	Jinxin Zhao, Dominique Tobler, Weizhao Yin, Mette Broholm, Annika Fjordbøge, Klaus Mosthaf, Hans Chr. Hansen	University of Copenhagen#Jinan University#Technical University of Denmark
213	Ex Situ Remediation of Petroleum-Contaminated Soil Using the Engineered Sequestered Biocell System (ESBS): A HYPREP Case Study in Large-Scale Hydrocarbon Cleanup	Nenibarini Zabbey[1]	[1]HYPREP
215	Soil and sediment reuse vs. soil protection and preserving water quality: a balancing act	Michiel Gadella[1]	[1]Ministry of Infrastructure and Water Management/Rijkswaterstaat
218	An Innovative Automated Flux Chamber for Real-Time Monitoring of VOCs Emissions from the Subsurface at Contaminated Sites	Nicolò Tonolo[1], Alessandra Cecconi[1], Srey Mom Vuth[1], Donato Abruzzese[1], Daniele Carnevale[1], Alessandro Bigi[2], Sergio Teggi[2], Simona Berardi[3], Maria Paola Bogliolo[3], Iason Verginelli[1]	[1]University of Rome Tor Vergata, [2]University of Modena and Reggio Emilia, [3]Institute for Insurance against Accidents at Work (INAIL)
219	Sequential Water Extraction to gain Insight into Unsaturated Zone Processes during Managed Aquifer Recharge by Soil Aquifer Treatment	Cristina Valhondo[1], Lurdes Martinez-Landa[2], Jesús Carrera[1], Paola Sepulveda-Ruiz[3], Montse Folch[3], Silvia Diaz-Cruz[1]	[1]Institute of environmental assessment and water reseach (IDAEA-CSIC), [2]Universitat Politécnica de Catalunya (UPC), [3]Barcelona University (UB)
220	Reaction zone based technologies for remediating contaminated groundwater	Mengfang Chen[1]	[1]Institute of Soil Science, Chinese Academy of Sciences
221	Nanoscale zero valent iron-biochar multifunctional composites for effective remediation of organic contaminants in groundwater	Lei Yang[1]	[1]Institute of Soil Science, Chinese Academy of Sciences
223	Using biochar and coal ashes as passive barriers to mitigate chlorinated solvents vapours in the subsoil	Clarissa Settimi[1], Benedetta Conti[1], Iason Verginelli[1], Daniela Zingaretti[1], Immacolata Bortone[2], Frederic Coulon[2], Renato Baciocchi[1]	[1]University of Rome Tor Vergata, [2]Cranfield University
227	Variation in VOC concentration over time – results of two years' measurements	Susanne Arentoft[1], Winnie Hyldegaard[1], Karin Birn Nielsen[1], Boerge Hvidberg[1]	[1]Central Denmark Region
229	Reactivity and (eco)toxicity of pavement bitumen incorporated in soils after de-sealing	Arnaud Herbreteau[1]	[1]Université de Lorraine
231	LIFE MySOIL project - Guidelines for implementation of mycoremediation	Jofre Herrero[1], Carme Bosch[1], Caroline Zaoui[2], Ilaria Chicca[2], Silvia Crognale[3], Alessandro D'Annibale[3], Carlos García-Delgado[4], Rafael Antón-Herrero[4], Enrique Eymar[4], Laurent Thannberger[6], Fiora Bagnato[6], Jorge Diamantino[7], Cynthia Alcántara[7], Norbert Nägele[7], Anko Fischer[8]	[1]Eurecat, Centre Tecnològic de Catalunya, Manresa, Spain, [2]Novobiom, Ottignies-Louvain-la-Neuve, Belgium, [3]University of Tuscia, Tuscia, Italy, [4]Universidad Autónoma de Madrid, Madrid, Spain, [5]Valgo, Petit-Couronne, France, [6]Eni Rewind, San Donato Milanese, Italy, [7]Kepler Ingeniería y Ecogestión SL, Burgos, Spain, [8]Isodetect GmbH, Leipzig, Germany
237	KRIGIS – The software for groundwater contamination that you can trust to deliver insightful maps and indicators.	Lucien Duren[1], Fernand Bouhon[1], Gaby Peret[1], Christien Dardenne[1]	[1]Artesia Environnement
239	The biopiles technology proved to be a successful sustainable alternative for the remediation of soils contaminated with mineral oil and volatile organic compounds.	Emma Vanderveken[1], Pieterjan Waeyaert[1], Loic Ruiz[1], Alain Pieters[1]	[1]Envisan (Jan De Nul Group)
242	A Green Approach to Remediate PFAS Using Fungal Enzymes-Mechanisms and Applicability	Dora Chiang[1], Jack Huang[2]	[1]Jacobs, [2]University of Georgia
248	Antimicrobial resistance (AMR) bacteria in the aquatic environment: study of carbapenemase-producing E. coli and K. pneumoniae in freshwater, bathing water and hospital continuums in Belgium	Leslie Crettels[1], Nadine Burlion[1], Elisa Delrée[1], Anne-Françoise Mouchette[1], Damien Thiry[2]	[1]Department of Microbiology, ISSeP, Scientific Institute of Public Service, Liège, Belgium, [2]Veterinary Bacteriology, Department of Infectious and Parasitic Diseases, Faculty of Veterinary Medicine, Centre for Fundamental and Applied Research for Animals and Health (FARAH), ULiège
249	Determination of critical parameters for modelling of PFAS transport in unsaturated zone	Morten Birch Larsen[1], Nanna Thomsen[1], Gitte Lemming Soendergaard[1], Jesper Bjergsted Pedersen[2], Denys Grombacher[2], Jens Muff[3], Ane Labianca[4], Maria Hag[4]	[1]Ramboll, [2]Department of Geoscience, Aarhus University, [3]Department of Chemistry and Bioscience, Aalborg University, [4]Capital Region of Denmark

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252	Remediation of an aquifer impacted by chlorinated hydrocarbons using In Situ Reactive Zones	Mattia Cappelletti Zaffaroni[1], Luca Ferioli[1], Anna Legnani[1], Giulia D'Ambrosio[1], Alan Thomas[1]	[1]ERM Environmental Resources Management
254	Large scale risk assessment for diffuse contamination in soil	Giulia Minolfi[1], Elisa Giubilato[1], Antonio Sellitri[2], Alex Zabeo[1], Lisa Pizzol[1], Stéphane Belbeze[3], Elena Semenzin[2]	[1]GreenDecision srl, [2]Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice, [3]BRGM
256	Indicators for Circular and Sustainable Mass Handling in Infrastructure Projects (INDIMASS)	Lucija Prsa Gazilj[1], Jenny Norrman[1], Lars Rosén[1]	[1]Chalmers University of Technology
258	Thermal Desorption of TPH Contaminated Dehydrated Sludges and Vapor Management at Kalina, Poland	Maël Makoudi[1]	[1]Haemers Technologies
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261	Thermal Desorption of Heavy Oils Contaminated Soils in an Oil Field in South Sudan	Ignacio Toranzo[1]	[1]Haemers Technologies
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273	Mapping community assets to foster the sustainable transformation of sites contaminated with naturally occurring radioactive materials – An Italian case study	Federica Panzarella[1], Valérie Cappuyns[2], Catrinel Turcanu[3], Bieke Abelshausen[4]	[1]KU Leuven & SCK CEN, [2]KU Leuven, [3]SCK CEN, [4]VUB
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277	Bioremediation-Based Tertiary Treatment for Enhanced Nitrate Removal in Domestic Wastewater	Shrestha Bhowmik[1], Cecilia Macleod[1]	[1]Thrive Science Ltd.
279	Evaluating soil sampling methods for accurate quantification of volatile organic compounds in polluted sites: A comparative analysis	Sophie Favéreaux [1], Stéphane Belbèze [1], Pauline Moreau [1], Dorian Davarzani[1]	[1]BRGM
280	Thermal-Enhanced Alkaline Persulfate Oxidation for Treating LNAPL-Contaminated Emulsions	Andrés Sánchez-Yepes[1], Mario Navarro Úbeda[1], Aurora Santos[1], Arturo Romero[1], David Lorenzo[1]	[1]Chemical Engineering and Materials Department Complutense University of Madrid Spain
284	Demonstrating the effectiveness of Intraplex® carbon for the in situ immobilization of PFAS plumes at airport sites.	Sarah Suehnholz[1], Julian Bosch[1], Mike Mueller[2]	[1]Intrapore GmbH, [2]Evonik
286	The mechanism of plants and effective microorganisms combined remediation of heavily TNT contaminated soil	MengWei Han[1], YongBing Zhu[1], Bing Dong[1], SanPing Zhao[1]	[1]State Key Laboratory of NBC Protection for Civilian
287	Adsorption of 2,4,6-trinitrotoluene by biochar and its application in soil remediation	Bin Dong[1], Chengxu Lai[1], Xu Yang[1], Mengwei Han[1], Sanping Zhao[1], Junbo Zhong[2], Yongbing Zhu[1]	[1]State Key Laboratory of NBC Protection for Civilian, [2]Key Laboratory of Green Chemistry of Sichuan Institutes of Higher Education, School of Chemistry and Environmental Engineering, Sichuan University of Science and Engineering
288	LIFE REMAR, Renaturalizing Treated Wastewater through Managed Aquifer Recharge in Cambrils (Spain)	Miranda González Rodríguez[1], Tiphaine Chantal Anderbouhr[1], Joan Campos Ferré[1], Sara Bagés Estopà[1], Silvia Díaz Cruz[2], Jesús Carrera Ramírez[3], Cristina Valhondo González[3], Lurdes Martínez Landa[4], Xavier Sánchez Vila[5], Linda Luquot[6], Josep Martínez Vilar [7]	[1]Comaigua, [2]Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Barcelona, [3]Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Barcelona. Associated Unit: Groundwater Hydrology Group (GHS: UPC-CSIC), [4]Department of Civil and Environmental Engineering, Polytechnic University of Catalonia (UPC), Barcelona. Associated Unit: Groundwater Hydrology Group (GHS: UPC-CSIC), [5]Department of Civil and Environmental Engineering, Polytechnic University of Catalonia (UPC), Barcelona., [6]Géosciences Montpellier, University of Montpellier, Centre National de la Recherche Scientifique (CNRS), [7]Mejoras Energéticas

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290	Use of PFAS passive flux samplers as a line of evidence towards a nature-based remedial approach	Mattias Verbeeck[1], Charline Kaplan[1], Olga Vounaki[1], Rony Annaert[1], Marjan Joris[2], Erik Bosmans[2]	[1]ERM, [2]iFLUX
291	MICROBIOLOGY FOR ENVIRONMENTAL REMEDIATION: A CASE OF AN INTEGRATED STRATEGY	Massimiliano Baric[1], Tatiana Stella[1], Anna Espinoza[1], Francesca Formicola[1], Silvia Leoci[1], Valentina Rivelli[1]	[1]M3R Monitoring and Management of Microbial Resources S.r.l.
296	The Catchment Pesticide Diagnosis Unit : a tool to develop strategies to reduce drinking water catchment pollution	Florence Williscotte[1], Bernard Weickmans[1], Bruno Huyghebaert[1], Nicolas Triolet[2]	[1]Centre wallon de Recherches agronomiques, [2]Société Publique de Gestion de l'Eau
297	Diffuse soil contamination with emerging contaminants along roads and railways in Flanders	Dorien Gorteman[1], Karen Van Geert[1], Griet Van Gestel[2], Laetitia Six[2]	[1]Arcadis, [2]OVAM
300	Micro- and molecular biological studies on the remediation of water resources affected by mining activities in southern African regions	Lara Stelmaszyk[1], Stephan Hüttmann[2], Harry Ylikangas[3], Stefan Norra[4], Flavia Digiacomo[5], Rosa Sengl[4], Florian Eichinger[6], Florian Blum[6], Casebety Sililo[7], Vazembua Tjizoo[7], Andreas Tiehm [1]	[1]DVGW Technologiezentrum Wasser, [2]Sensatec GmbH, [3]Sensatec Africa LTD, [4]University of Potsdam, [5]Karlsruhe Institute of Technology, [6]Hydroisotop GmbH, [7]Sinomine Tsumeb Smelter
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304	MYCOTRAP – An innovative tool to evaluate natural biodegradation and biostimulation of organic pollutants in soil based on stable isotope probing (SIP)	Anko Fischer[1], José Luiz Vazquez Ramos[1], Kevin Kuntze[1]	[1]Isodetect GmbH
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311	Effective approaches for assessing and remediating heavy metal contamination in soils: Sustainable solutions for environmental health	Anela Kaurin[1], Simon Gluhar[1], Grega E. Voglar[1], Eirik Aas[2], Domen Lestan[1]	[1]ENVIT Ltd., Pod lipami 35, 1218 Komenda, Slovenia, [2]EUROFINS MILJO A/S, Smedeskovvej 38, 8464 Galten, Denmark
314	Chlorinated Solvent Daughter Product Management and Expedited Remediation	Michael Mazzarese[1]	[1]AST Environmental, Inc.
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326	A new risk-based prioritization strategy of Contaminants of Emerging Concerns in soils.	Amelie Cavelan[1], Aline Coftier[1], Fatimah Sulu-Gambari[2], Jaana Sorvari[3], Jani Häkkinen[3], Jussi Reinikainen[3], Elisa Giubilato[4], Virginie Derycke[1]	[1]BRGM, France, [2]Deltares, Netherlands, [3]SYKE, Finland, [4]GreenDecision srl, Italy
327	Bioaugmentation of ETBE-Contaminated Groundwater Using highly capable Synthetic ETBE-Degrading Microbial Consortia	Diego Corcho[1], Laurent Laperou[1], Yolanda Lucas [2], Miriam Guivernau[2], Marc Viñas[2]	[1]Envirotecnics Global Service SL, [2]Institute of Agrifood Research and Technology (IRTA)
328	Application of the dermal bioavailability of PAH soil contamination to inform detailed quantitative human health risk assessment	Darren Beriro[1], Paul Nathanail [1], Russell Thomas[2], Christopher Taylor[3]	[1]British Geological Survey, [2]WSP, [3]National Grid
337	A toolbox for aplication of Nature-Based Solutions for petroleum hydrocarbons at industrial sites	Frank Volkering[1], Mirte van der Vlist-Golverdingen[1]	[1]TAUW bv
339	DC electric fields promote biodegradation of waterborne naphthalene in biofilter systems	Jinyao He[1], Jose Carlos Castilla-Alcantara[2], Jose Julio Ortega-Calvo[2], Hauke Harms[1], Lukas Yvo Wick[1]	[1]Helmholtz Centre for Environmental Research UFZ, [2]Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS-CSIC)
345	Design of a low-cost environmental monitoring system for real-time control and recording of key environmental parameters in the extractive industry	Eduardo Conde Lázaro[1], Eduardo De Miguel García[1], Fernando Barrio Parra[1], Miguel Izquierdo Díaz[1], Luis Jesús Fernández Gutiérrez Del Álamo[1], Luis Felipe Mazadiego Martínez[1], Humberto Serrano García[1], Pablo Reina Peral[1]	[1]Universidad Politécnica de Madrid
355	Nature-based solutions for contaminated soils: multi-scale spectral mapping, risk assessment, and phytomanagement innovations in the EDAPHOS project.	Yoann Boisson[1], Lisa Ciadamidaro[2], Manhattan Lebrun[1], Julien Parelle[2], Fabienne Tatin-Froux[2], Solofoniaina Andriamihajason[3], Efthymia Alexopoulou[4], Kostantinos Iordanoglou[4], Guillaume Bertrand[2], Walter Zegada-Lizarazu[5], Engracia Madejon[6], Paula Madejon[6], Peter Welters[7], Sophie Fabre[8], Hugo Dorbes[8], Julia Sepulveda[9], Nicolas Manier[10], Nicolas Pucheux[10], Aleksandra Zgórska[11], Michel Chalot[2]	[1]UBFC, [2]UFC, [3]UBFC / ONERA, [4]CRES, [5]UNIBO, [6]CSIC, [7]PHYTOWELT, [8]ONERA, [9]MIC, [10]INERIS, [11]GIG
357	Pollution in Soil and Sediments Caused by Livestock breeding and Higher-place Ponds Aquaculture on Coastal Zone Land: A Case Study in Wenchang, China	Sanping Zhao[1], Yongbing Zhu[1], Haiyang Zhang[2], Bin Dong[1], Xiaodong Liu[2]	[1]State Key Laboratory of NBC Protection for Civilian, [2] Anhui Province Key Laboratory of Polar Environment and Global Change, School of Earth and Space Sciences, University of Science and Technology of China

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359	ASSENAS - Sustainable Remediation Specialists	Renaud De Rijdt[1]	[1]ASSENAS
363	Case Studies on How Soil Vapor Screenng Assessments can Streamline the Site Closure Process	Craig Cox[1]	[1]Cox-Colvin & Associates, Inc.
364	Effectiveness of sustainable zeolites for soil remediation	Mar Gil-Díaz[1], Carolina Mancho[1], Rosana Pérez[2], Beatriz Albero[2], Juan Alonso[1], Sergio Diez-Pascual[1], M. Carmen Lobo[1]	[1]IMIDRA, [2]INIA-CSIC
366	Low-pressure injection of an alkaline reagent for in-situ stabilization of heavy metals in low-permeable roasted pyrite ash fills of degraded estuarine landscapes	Eduardo Alzola[1], Barbara Angulo[1], Ibon Lekue[1], Unai Reyes[1], José Antonio Capón[1], Nerea Duroudier[1], Mari Luz Artíguez[1]	[1]AFESA Medio Ambiente, S.A.
367	Promoting the transition of agroecosystems towards sustainability considering present and future climate change: the Transdisciplinary Agrosystem Platform for Integrated Research project (TAPIR)	Roxane Dhommée[1], Roxane Bruhwyler[1], Caroline De Clerck[1], Pierre Delaplace[2], Benjamin Dumont[1], Xavier Fettweis[1], Frédéric Lebeau[2], Vincent Leemans[2], Bernard Longdoz[2], Sébastien Massart[3], Jennifer Michel[3], Hervé Vanderschuren[3], Jerôme Bindelle[3]	[1]AgricultureIsLife-TERRA, Gembloux Agro-Bio Tech, [2]EnvironmentIsLife-TERRA, Gembloux Agro-Bio Tech, ULiege, [3]AgricultureIsLife-TERRA, Gembloux Agro-Bio Tech, ULiege
373	Development of calcium-iron dual crosslinking pectin adsorbents for efficient water contaminant remediation	Renata Matekalo[1], Silvina Cerveny[2], Andreas Seifert[3]	[1]CIC nanoGUNE BRTA/Centro de Física de Materiales (CSIC, UPV/EHU)-Materials Physics Center (MPC)/Department of Physics, University of the Basque Country (UPV/EHU), [2]Centro de Física de Materiales (CSIC, UPV/EHU)-Materials Physics Center (MPC)/Donostia International Physics Center (DIPC), [3]CIC nanoGUNE BRTA/IKERBASQUE—Basque Foundation for Science
375	A New Analytical Solution for Groundwater Pollution Risk Assessment: Integrating Mass Fluxes and Degradation By-products	Antoine Poncelet[1], Philippe Orban[1], Serge Brouyère[1]	[1]Université de Liège, Urban & Environmental Engineering Research Unit, Group of Hydrogeology and Environmental Geology
378	Rehabilitation of Former Tailings Ponds: On-Site Testing of Vegetated Covers. Implementing Sustainable Management of Contaminated Soils.	Camila DIAZ VANEGAS[1], Aude DELAHAYE[1], Nicolas AMPEN[1]	[1]RAMBOLL FRANCE, 155 rue Louis de Broglie 13100 Aix-en-Provence
388	Innovative Applications of Waste-Derived Biochars: Case Studies in Water Treatment and Agriculture	Anna Bogush[1], Ondrej Masek[2], Jhonny Quispe[1], Wolfram Buss[2], Konstantin Ignatyev[3], Luiza Campos[4]	[1]Centre for Agroecology, Water and Resilience, Coventry University, UK , [2]School of GeoSciences, University of Edinburgh, UK , [3]Diamond Light Source, UK, [4]Department of Civil, Environmental and Geomatic Engineering, University College London, London, UK
391	Enhanced degradation of 1,4-dithiane and 1,4-thioxane related to the chemical weapons abandoned by Japan in China with persulfate system activated by Vs-riched-FeSx/BC: Efficiency and mechanism	Yong-bing Zhu[1], Peng-fei Guo[1], San-ping Zhao[1], Shang-yi Li[2], Ting-ting Zhang[2]	[1]State Key Laboratory of NBC Protection for Civilian, [2]Department of Environmental Science and Engineering, Beijing University of Chemical Technology
395	How limit values translate into health? A sneak peek into the doctor's office	Paula Hammer[1], Nina Tuxen[2]	[1]Dept. of Occupational and Environmental Medicine, Poison Information Center, Bispebjerg University Hospital, Copenhagen, Denmark , [2]Capital Region of Denmark
402	LIFE CAPTURE: Combining novel analytical protocols with effective technologies for sustainable PFAS remediation	Jan De Vos[1], Axelle Mineur[1], Silvia Franz[2], Valeria Mezzanotte[3], Paolo Ronco[4]	[1]ABO Group, [2]Politecnico di Milano, Dept. of Chemistry, Materials and Chemical Engineering , [3]Università di Milano Bicocca, Dept. Of Earth and Environmental Sciences, [4]Centro RIVE – VIACQUA spa
403	Competitive adsorption model for optimized design of water treatment systems in the presence of complex mixtures of organic pollutants	Carlo Bianco[1], Leonardo Magherini[1], Marios A. Ioannidis[2], Rajandrea Sethi[1]	[1]Department of Environment, Land and Infrastructure Engineering (DIATI), Politecnico di Torino, [2]Department of Chemical Engineering, University of Waterloo
404	Surfactant enhanced remediation of marine sediments contaminated with TPH using rhamnolipid, anionic, non-ionic and mixed surfactants	Manuela Russo Tiesi[1], Gaetano Di Bella[2], Enrico Licitra[2], Giovanni Vinti[1], Gaspare Viviani[1], Daniele Di Trapani[1]	[1]University of Palermo, Italy, [2] University of Enna "Kore", Italy
405	From screening to selection of methods for the remediation program for a mega plume	Britt Boye Thrane[1], Morten Birch Larsen[1], Dorte Harrekilde[1], Cecilie Fisker Ottosen[2], Grégory Lemaire[2], Poul L Bjerg[2], Mette M Broholm[2], Jørn K. Pedersen[3], Lone Dissing[3]	[1]Ramboll, [2]DTU Sustain, [3]Region of Southern Jutland

407	Efficiency of nitrogen transformation under various operating conditions in soil aquifer treatment	Paola Sepúlveda-Ruiz[1], Marta Casado[2], Lurdes Martinez-Landa[3], Montserrat Folch[1], Benjamin Piña[2], Jesús Carrera[4], Cristina Valhondo[4]	[1]Biology, Sanitation and Environmental Department, University of Barcelona, Av. Joan XXIII, 08028 Barcelona, Spain, [2]Institute of Environmental Assessment and Water Research, IDAEA-CSIC, Barcelona, Catalunya 08034, Spain, [3]Dept. of Civil and Environmental Engineering, Universitat Politècnica de Catalunya, Barcelona, Spain, [4]Institute of Environmental Assessment and Water Research, IDAEA-CSIC, Barcelona, Catalunya 08034, Spain, Associated Unit: Hydrogeology Group (UPC-CSIC), Spain
408	Removal of Iron in Nitrobenzene Contaminated Groundwater using Advanced Chemical Oxidation Process with UV-Activated Persulfate	Bastian Saputra[1], Cecilia MacLeod[1], David Holmes[2]	[1]Thrive Science Ltd. , [2]Geosyntec Consultants
409	A Sustainable Approach for the in-situ Treatment of Deep CHC Contaminants Underlying a Manufacturing site in Germany using ZVI and Bio-augmentation	GORDON BURES[1], LARS ERPEL[1], JOACHIM FELDGES[2], WALTER LENZ[2], MIKE MUELLER[3]	[1]SENSATEC GmbH, [2]HG Büro für Hydrogeologie & Umwelt GmbH, [3]EVONIK OPERATIONS GmbH
416	Approach to non-regulated pesticides - developing an action framework for soil investigation	Daniël Rits[1], Bjent van der Enden[1], Bert Baan[2], Willem Hendriks[1]	[1]Witteveen+Bos , [2]TTE
419	Engineering biology for metaldehyde biodegradation in drinking water using Sphingobium spp and Acinetobacter spp.	Yasmin Meeda[1], Miles Folkes[1], Frederic Coulon[1], Francis Hassard[1]	[1]Cranfield University
422	Climate change effects on Cr(VI) pathways in the groundwater of Ljubljansko polje (Ljubljana, Slovenia)	Janja Svetina[1], Joerg Prestor[1], Simona Pestotnik[1], Ranko Biondić[2], Sandra Vasin[3], Grzegorz Gzyl[4]	[1]Geological Survey of Slovenia, [2]Faculty of Geotechnical Engineering, University of Zagreb, [3]State Capital of Stuttgart, [4]Central Mining Institute
423	A modelling tool to assess management alternatives of contaminated sediment basin including potential impacts and co-benefits of floating solar panels	Francois Clayer[1], Marianne Sekkenes[1], Nicolas Estoppey[2], Marion Børresen[2], Sissel Renneklev[1], Thea Christiansen[2], Arne Pettersen[2], Mārtiņš Pričins[3], Ivo Koliņš[3], Espen Eek[2]	[1]Norwegian Institute for Water Research (NIVA), [2]Norwegian geotechnical institute (NGI), [3]Liepaja Special Economic Zone Authority (LSEZ)
427	PFAS Forensics: Distribution of PFAS in tree rings at an AFFF contaminated site	Charles Pijls[1], Amy Veenendaal[1], Adrie Luykx[2], Aiko Hensums[3]	[1]TAUW, [2]Province Gelderland, [3]Municipality Doetinchem
431	A framework for community engagement and the management of air quality and odours during regeneration of industrial land	Matthew Pannett[1]	[1]Ramboll UK Limited
433	Waste2bio, an ecosystem of Belgian stakeholders for the economic and environmental redevelopment of brownfields and polluted sites	Marc Hanikenne[1], Cécile Nouet[1], Pierre Lejeune[1], Pierre Tocquin[1]	[1]Université de Liège
434	Sorption and Mobility of PFAS and Nitrification Inhibitors in Conservation Agriculture	Camilla Jakobsen[1], Sandra Daugaard[1], Bjarne Strobel[1]	[1]University of Copenhagen
437	Applying Indexing for Evaluation of Existing Pump-and-Treat Plants with Regards to Operational Resources and Multiple Contaminants	Krzysztof Kowalski[1]	[1]Capital Region of Denmark
438	Revalorizing Contaminated Lands through phytomanagement and High-Value Bio-Based Material Production: A Field Case Study in Sclessin, Wallonia, within the IASIS Project	Enrica May Hedgecock[1], Quentin Douhard[1], Pierre Lejeune[1], Efthymia Alexopoulou[2], Stéphane Pfendler[3], Michel Chalot[3], Cécile Nouet[1], Marc Hanikenne[1]	[1]Université de Liège, [2]IASIS Consortium, [3]Université Bourgogne Franche-Comté
442	SAFE project : an innovative approach for Waste Management Freshwater Aquaculture Waste	Christelle VREULS[1], Stéphane Drot[2], Soukaina HILALI[2], Emilie Stierling[2], Mahmoud HAMZAOUI[2]	[1]Celabor, [2]celabor
445	Innovative groundwater remediation for PFAS contamination in Doetinchem	Dennis Scheper[1], Lukas Scholz[1], Albert Smits[1]	[1]NTP
447	Examples of how local Policy Implementation can be completely different by region in two countries (Belgium and PRC (China))	Steve LEROI[1]	[1]Optimum Momentum BV
449	CO2POL – Carbon footprint of depollution projects and remediation sites – Design of a nationally shared methodology for emission calculations and provision of key figures	Sébastien Kaskassian[1], Baptiste Fillebeen [1], Niama El Kari[1], Christophe Chene[2], Louise Dessertine[2], Clotilde Johansson[2]	[1]TAUW France, [2]ORTEC SOLEO
450	High resolution/remediation design characterization allows sustainable optimization of residential redevelopment project	Gabriele Giorgio Ceriani[1]	[1]Ejlskov A/S
453	Geospatial Analysis for Monitoring and Assessing Oil Spills in Nigeria	Nguamo Jessica Angula[1], Christine Switzer[1]	[1]Department of Civil and Environmental Engineering, University of Strathclyde
454	Assessment of Colloidal Gas Aphrons and Foam for Remediation of LNAPL-Contaminated Soils	Ali Sipullayev[1], Adil Baigadilov[2], Maxime Cochennec[2], Stéfan Colombano[2], Yerlan Amanbek[1], Yanwei Wang[1], Sagyn Omirbekov[1]	[1]National Laboratory Astana - Nazarbayev University, [2]BRGM (French geological survey)
460	Novel sorbents for remediation of crude oil and refined product spills in aquatic systems	Alamin Khamis Lamido[1], Christine Switzer[1]	[1]University of Strathclyde
461	Deep LNAPL in-situ biological remediation keeps large active service station in business	Gabriele Giorgio Ceriani[1], Duane Guilfoil[2]	[1]Ejlskov A/S, [2]AST Environmental Inc.
462	In-situ PFAS Stabilization by Injection of Organo-Clay (InSuFix Project)	Hans Baillieul[1], Jeroen Vandenbruwane[2], Ilse Van Keer[3], Ward Swinnen[3], Nick Pays[4], Lise Destombes[4], Nicolas Soenens[5], Marjan Joris[6]	[1]Sodecon, [2]Injectis, [3]VITO, [4]Port of Antwerp-Bruges, [5]Brussels Airport Company, [6]i-Flux

464	Application of biosorption technology for PFAS removal in water	Marta Senofonte[1], Giulia Senofonte[1], Stefano Parisi[1], Laura Lorini[1], Carmela Riccardi[1], Marco Petrangeli Papini[1]	[1]"La Sapienza" University
467	Assessment of soil toxicity of polycyclic aromatic hydrocarbons under biochar treatment using passive sampling and biota characterization	Maria Florberger [1], Ingrid Rijk[2], Dimin Fan[3], Brent Pautler[4], Phil Dennis[4], Sandra Dworatzek[4], Sigrun Dahlin Dahlin[5], Anja Enell[6], Alf Ekblad[2], Susanne Karlsson[7], Dan Berggren Kleja[8], Anna Kärrman[2], Maria Larsson[2], Viktor Sjöberg[2], Matilda Wiberg[9]	[1]Geosyntec Consultants, [2]Örebro University, [3]Geosyntec Consultants , [4]SiREM , [5]Agricultural University of Sweden , [6]Swedish Geotecnical Institute , [7]Structor Miljö Öst AB, [8]Agricultural University of Sweden (SLU)/Sweden, Swedish Geotecnical Institute, [9]Structor Miljöteknik AB
469	LIFE NARMENA: Nature based remediation techniques for heavy metals in sediment – results of a constructed wetland in the Winterbeek site	Axelle Mineur[1], Jan De Vos[1], Froukje Kuijk [2], Karel Viaene[3]	[1]ABO consultancy, [2]OVAM, [3]ARCHE
475	Functional diagnostic of industrial soils: from the selection of indicators to their applications in situ	Caroline Dalquier[1], Virginie Derycke[2], Jennifer Harris[2], Laure Santoni[3], Pascaline Herbelin[3], Geoffroy Séré[1]	[1]Université de Lorraine, Laboratoire Sols et Environnement, 54505 Vandoeuvres-lès-Nancy, France, [2]Bureau de Recherches Géologiques et Minières, F-45100 Orléans, France, [3]EDF R&D LNHE, F-78401 Chatou cedex, France
476	Nature-based solutions as catalysts for soil-inclusive planning: Developing long-term regional strategies for European SPADES pilots	Natalia Rudik[1]	[1]Deltares
477	Methods for Combining In Situ Chemical Oxidation and Bioremediation	Brant Smith[1], Josephine Molin[1], Mike Mueller[2], Alberto Leombruni[2]	[1]Evonik Corporation, [2]Evonik GmbH
478	Coupling of 1,4-dioxane metabolism and co-metabolism with biodegradation of monoaromatic and heterocyclic hydrocarbon contaminants in groundwater	Alfredo Perez-de-Mora[1], Ludwig Immler[1], Jennifer Webb[2], Rachel Hallman[2], Sandra Dworatzek[2]	[1]TAUW GmbH, [2]SiREM Lab
479	Optimization of Colloidal Biochar Suspensions for Groundwater Remediation: A Laboratory Study on In-Situ Adsorption of Chlorinated Solvents and Petroleum Hydrocarbons	Damiano Feriaud[1], Sara Cerra[1], Ilaria Fratoddi[1], Marco Petrangeli Papini[1]	[1]La Sapienza University of Rome
483	Comprehensive site investigation as framework for remedial action planning	Michela De Camillis[1]	[1]Ramboll
485	Combining Carbon Farming & Innovative Phytomanagement Approaches for Brownfield Valorization: the Walloon Living Hub Use Case within the INNO4CFIs I3 Project	Agathe Mercier-Nallet[1], Ilaria Chicca[1], Anastasia Pacary[2], Florian Liénard[3], Caroline Zaoui[1]	[1]NOVOBIOM, [2]iMEAN, [3]ISSeP
490	Advancing LNAPL remediation: Enhanced stability and performance of Polymer Enhanced Foam (PEF) in porous media	Adil Baigadilov[1], Stéfan Colombano[1], Sagyn Omirbekov[2], Maxime Cochennec[1], Dorian Davarzani[1], Fabien Lion[1], Laurent Oxarango[3], Hugues Bodiguel[3]	[1]BRGM (French Geological Survey), [2]National Laboratory Astana (Nazarbayev University) , [3]Université Grenoble-Alpes
491	Sustainable treatment of hospital effluents using activated biochar for pharmaceutical removal	Ana Hayat[1], José Leandro Duarte Da Silva[1], Carmen María Domínguez[1], Aurora Santos[1], Salvador Cotillas[1]	[1]University Complutense of Madrid
493	Plant-based Methods to Address Decreased Nutrients and Increased Salinity in Soil after Applied Smouldering Remediation	Christine Switzer[1], Rossane Delapp[2], David Kosson[2], Charles Knapp[1]	[1]University of Strathclyde, [2]Vanderbilt University
494	Upscaling fungal assisted bioremediation for the treatment of TPH contaminated soil: a LifeMySoil case study at a former refinery site in France	Ilaria Chicca[1], Maxime Dessily[1], Xin Zhang[1], Margit Heiske[2], Anastasia Pacary[2], Laurent Thannberger[3], Caroline Zaoui[1]	[1]NOVOBIOM, [2]iMEAN, [3]VALGO
495	Quantifying the Carbon Footprint of Applied Smouldering for Contaminant Remediation, Biosolids, and Municipal Solid Waste Treatment	Christine Switzer[1], Tarek Rashwan[2]	[1]University of Strathclyde, [2]Open Univeristy
497	International Comparison of Important Indicators for Citizens in the Final Disposal of Soil Containing Radioactive Materials from the Fukushima Daiichi Nuclear Power Plant Accident	Masaki Takeda[1], Tetsuo Yasutaka[1], Momo Takada[1], Michio Murakami[2], Susumu Ohnuma[3], Yasuyuki Shibata[3], Thierry Schneider[4], Kosuke Shirai[1]	[1]National Institute of Advanced Industrial Science and Technology (AIST), [2]Osaka University, CiDER , [3]Hokkaido University , [4]CEPN
499	Austrias historically contaminated sites – current state and making remediation fit for future	Thomas Wirthensohn[1], Timo Dörrie[2]	[1]Kommunalkredit Public Consulting GmbH, [2]Environment Agency Austria
501	Successful Remediation of a Chlorinated Solvent Source Area in Clay Till Using Microscale Zero Valent Iron: Results From Ten Years of Performance Monitoring	Neal Durant[1], Dylan Eberle[1], Morten Dreyer[2], Torben Jørgensen[2], Kirsten Rügge[2], Nina Tuxen[3]	[1]Geosyntec Consultants, [2]COWI A/S, [3]Capital Region of Denmark
502	Electrochemical reduction of PFAS in situ – presentation of laboratory and field test results and most likely identified mechanisms of contaminant reduction.	Petr Kvapil[1], Namuun Gambat[1], Emily Brown[1], Ian Phillipps[1], Jaroslav Nosek[2], Alena Pavelkova[2], Jaroslav Semerad[3], Tomas Cajthaml[3], Jan Filip[4]	[1]Photon Water, [2]Technical University Liberec, [3]MBU AVČR, [4]Universita Palackeho Olomouc
506	Reactive transport models are core stone tools to optimize phytostabilisation management of mining residues	Nicolas Devau[1], Hugues Thouin[1], Samuel Mertz[2], Ulysse Moreau[3], Lydie Le Forestier[3], Vincent Milesi[3], Christophe Tournassat[3], Olivier Pible[4], Marina Le Guedard[5], Fabienne Battaglia-Brunet[1]	[1]French Geological Survey (BRGM), [2]ANTEA, [3]Institut des Sciences de la Terre d'Orléans, [4] Laboratoire Innovations technologiques pour la Détection et le Diagnostic (Li2D-DRF-CEA), [5]LEB - ADERA
508	Soil quality and no net land take: methodological developments on Rennes metropolis (France)	Cécile LE GUERN[1], Benjamin DESLANDES[1], Bastien BOIVIN[1], Flora LUCASSOU[1]	[1]BRGM

513	Contaminants Bioavailability – Toward a Sustainable and a More Science Based Remediation Approach	Dr Fouad Abo[1]	[1]GHD
515	Engineered wetlands used for groundwater treatment at a contaminated megasite	Szabolcs Halmoczki[1], Ferenc Gondi[1]	[1]BGT Hungaria Kft.
518	Thermal treatment of PFAS in soil: Three field demonstrations show what is possible, including reaching non-detect concentrations and minimizing energy usage	Gorm Heron[1], Emily Crownover[1], Robert Glass[1]	[1]TRS Group
520	Flocculation for the treatment of extracted groundwater during Thermal soil remediation: gains and challenges.	Pieter De Waele[1]	[1]McMillan-McGee Europe
535	Simultaneous removal of mixed PFASs and Cd from aqueous solutions by montmorillonite-supported nZVI?Behaviors and mechanisms	Xin Song[1], Qing Wang[1], Liangchun Jia[2], Yi Zhou[3]	[1]State Key Laboratory of Soil and Sustainable Agriculture, Institute of Soil Science, Chinese Academy of Sciences, Nanjing 211135, China, [2]College of Science, Nanjing Agricultural University, Nanjing, 210095, China, [3]College of Materials and Advanced Manufacturing, Hunan University of Technology, Zhuzhou 412007, China
536	Phytoremediation as a sustainable alternative to traditional pump and treat systems	Olga Vounaki[1], Charline Kaplan[2], Mattias Verbeeck[2], Rony Annaert[2], Chris Gale[3]	[1]ERM Belgium, [2]ERM Belgium , [3]Applied Natural Sciences, Inc
537	Exploring the limits of saturated zone in situ thermal remediation	Søren Eriksen[1]	[1]Krüger Veolia
538	Hemp cultivation on metal contaminated soils: Strategies for phytomanagement and economic valorisation of degraded soils	Nolan Regnier[1], Stanley Lutts[1]	[1]UCLouvain
540	Constructed wetland for treatment of HCH-contaminated water – experience from a three-year field study	Jan Němeček[1], Martina Štrojsová[1], Pavla Švermová[1], Miroslav Černík[1]	[1]Technical University of Liberec
541	Reducing the carbon footprint and saving millions of Euros using a dynamic remedial approach	Jonny Bergman[1], Kristin Forsberg[1], Fredrik Westin[2], Pär Elander[3], Josephine Molin[4], Jack Shore[5]	[1]Sheeba Environmental Engineering AB, [2]PEAB Anläggning AB, [3]Elander Miljöteknik AB, [4]Evonik, [5]Regenesis
544	EXPOSED? - Towards a better assessment of human exposure to metal(loid)s in soils and the associated risks	Charlotta Tiberg[1], Yvonne Ohlsson[1], Matilda Johansson[1], Jérôme Petit[2], Aurélie Pelfrene[3], Linda Dunder[4], Mario Sanca[4], Martin Tondel[4]	[1]Swedish Geotechnical Institute, [2]Institut Scientifique de Service Public, Wallonie, [3]Laboratoire de Génie Civil et géo-Environnement, Univ. Lille, [4]Department of Occupational and Environmental Medicine, Uppsala Univ. Hospital
546	Isolation of an NMP (N-methyl-2-pyrrolidone) degradating bacteria and its usage in a fluidized-bed bioreactor	Balázs Fehér[1], Ingrid Zsilinszky[1], Laura Ábrahám[1], Péter Bernula[1], Attila Komoczi[1], István Kiss[1]	[1]aDepartment of Applied Microbiology, Division for Biotechnology, Bay Zoltán Nonprofit Ltd. for Applied Research
547	Optimization and validation of phytomanagement strategies using woody and herbaceous/fiber crops: A circular economy approach for soil restoration	Aqib Hassan Ali Khan[1], Diego Soto-Gómez[1], Andrea Martín-Pablo[1], Alberto Soto-Cañas[1], Sandra Curiel-Alegre[1], Jose Carlos Castilla-Alcántara[1], Luka Dovobric[2], Sergii Chabannyi[2], Belén Alonso-Nuñez[3], Jose Luis Rodriguez-Gallego[4], Gisela Félix[5], Humberto Castillo[6], Michel Chalot[6], Carlos Rad[7], Ana Arnaiz[8], Blanca Velasco-Arroyo[9], Akanksha Mishra[10], Andrea Martos[10], Rocío Barros[1]	[1]International Research Center in Critical Raw Materials for Advanced Industrial Technologies (ICCRAM), University of Burgos, Centro de I+D+I. Plaza Misael Bañuelos s/n. 09001, Burgos, Spain, [2]Particula Group Drustvo S Ogranicenom Odgovornoscu Za Istrazivanje Razvoj I Proizvodnju, [3] Departamento de Química, Escuela Politécnica Superior, Universidad de Burgos, Pza. de la Infanta Dña. Elena, s/n, 09001 Burgos, Spain, [4]Environmental Biogeochemistry & Raw Materials Group and Institute of Natural Resources and Territorial Planning (INDUROT), University of Oviedo, Campus of Mieres, 33600, Mieres, Spain, [5]Phytowelt Greentechnologies GmbH, [6]Chrono-environnement UMR 6249, Université de Franche-Comté CNRS, F-25000 Besançon, France, [7]Research Group in Composting (UBUCOMP), University of Burgos, Faculty of Sciences, Plaza Misael Bañuelos s/n, 09001, Burgos, Spain, [8]Departamento de Química, Facultad de Ciencias, Universidad de Burgos, Plaza Misael Bañuelos s/n, 09001 Burgos, Spain, [9]Department of Biotechnology and Food Science, University of Burgos, Plaza Misael Bañuelos, s/n, Burgos, 09001, Spain, [10]IDENER Research & Development Agupacion De Interes Economico
548	Innovative Analysis of Rainfall-Driven Contaminant Patterns in Groundwater: A Path Toward Climate-Resilient Water Management	Lazaros Sofikitis[1], Ahmed Abdelrady[2], Romee Van Dam[3], Marta Drausnik[4], P. Demestichas[15]	[1]WINGS ICT Solutions, [2]Wetsus, European centre of excellence for sustainable water, [3]Deltares, [4]Wageningen University, Department of Digital Systems, University of Piraeus, [5]Department of Digital Systems, University of Piraeus
549	Impact of Biopesticides on Soil Microbial Communities	Maria Osipenko[1], Caroline De Clerck[1]	[1]University Agro-Bio Tech Gembloux
550	Favorizing the local recycling of excavated soils characterized by elevated background by promoting the development of local territorial knowledges on background concentrations	Henri Halen[1], Pierre François[2], Gilles Colinet[2], Patrick Engels[3], Johan Yans[4], Théo Bouvart[4], Aubry Vandeuren[5]	[1]Brownfield Academy, [2]University of Liege - Gembloux AgroBioTech, [3]Walloon Administration of environment - SPW ARNE, [4]University of Namur - Faculty of Geology, [5]University Catholic of Louvain-Earth and Life Institute
552	Effects of adding different biostimulants and effects of temperature on the microbiological treatment of soil contaminated with high diesel concentrations	Jimena Sainz Cerezo[1], Jorge Diamantino Miranda[1], Norbert Nägele[1], Cynthia Alcántara Pollo[1]	[1]KEPLER Ingeniería y Ecogestión, S.L.

554	Exploring Typha domingensis as a candidate species for nickel uptake in the remediation of severely polluted waters	Yuri Castilho[1], Douglas Viana[1], Amanda Ferreira[1], Thomas Trentin[1], Amanda Varussa[1], Tiago Ferreira[1]	[1]Department of Soil Science, University of Sao Paulo
555	REMEDIATION BY IN-SITU CHEMICAL REDUCTION OF SOIL AND GROUNDWATER CONTAMINATED WITH TETRACHLOROETHYLENE	Cynthia Alcántara Pollo[1], Jorge Diamantino-Miranda [1], Jimena Sainz Cerezo[1], Norbert Nägele[1]	[1]KEPLER, INGENIERÍA Y ECOGESTIÓN, S.L.U.
559	Arbuscular mycorrhizal fungi increase no-tillage yield by increasing the multifunctionality of soil microbial nitrogen cycle	Hui Wu[1], Enke Liu[2], Pierre Delaplace[1], Caroline de Clerck[1]	[1]Liege University, [2]Chinese Academy of Agricultural Sciences
562	Dissemination of information for the global land contamination community	Rob Sweeney[1], Nicola Harries[1]	[1]Contaminated Land: Applications in Real Environments (CL:AIRE)
564	Use of MercLok™ P-640 to reduce elemental mercury beads and remediate highly contaminated building materials to non-hazardous waste classification.	Jon Miller[1], Kim Pingree[1], Caleb Fontenot[1]	[1]Albemarle Corporation
565	Review of PFAS Destruction Technology from Field Application Perspective: Matrices, Sources, Scalability, and Implementation.	Arul Ayyaswami[1], Jishnu Adhikari[1], Jitendra Kewalramani[1], Carl Lenker[1]	[1]Tetra Tech