

Characterization and monitoring (theme B)

- 26 Larocque-Tobler I. The Past is the Future
- 27 Khoshnavan H. Erosional impact on Caspian Sea coasts stability capacity
- 29 Yusuf Y. Suspended sediment delivery into the Kubanni reservoir, Ahmadu Bello university, Zaria, Nigeria
- 30 Elci S. An Approach for Estimating Settling Velocity in Turbulent Flows
- 43 Diop C., Cabral, Toure A., Dewaelle D., Fall M., Cazier F., Diouf A., Ouddane B. Assessment of trace metals contamination level, bioavailability and toxicity in sediments from Dakar coast and Saint Louis estuary in Senegal, West Africa
- 56 Chen C.W., Chen C.F., Dong C.D. Vertical profile, sources, and equivalent toxicity of polycyclic aromatic hydrocarbons in sediment cores from industrial harbor
- 61 Levacher D., Razakamanantsoa A. A Sedi-bar test for measuring consistency of sediments
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- 70 Ntzola V., Sazakli E., Sklivaniotis M., Zannis P., Leotsinidis M. The effect of wastewater treatment plants on the evolution of pollution level in Patras Gulf, Greece
- 75 Obhodas J., Valkovic V., Kutle A. Geochemical characterization of the river Neretva delta environment
- 78 Piotr K., Lilianna B. Analysis of possible use of sediments from dredged eutrophic reservoir on agricultural soils
- 79 Zamani Hargalani F., Karbassi A., Monavari S.M., Abroomand Azar P. Determination and assessment of heavy metals contamination in the Anzali sediments by using pollution indices
- 82 Yu G., Wang Z. Investigation of sediment quality in the middle reaches of the Yangtze River, China
- 87 Hassimi H., Debbaout V., Taleb A., Kherbeche A., Bouezmarni M., Taleb M. Study of contamination and speciation of heavy metals in the Oued of Fez and Oued Sebou
- 92 Valkovic V., Obhodas J., Kutle A. Geochemical characterization of coastal sea, river and stream sediments in peninsula Istria, Croatia
- 93 Wojtkowska M. Risk assessment of presence of metals in waters and sediments
- 98 Bourabah M.A., Taibi S., Abou-Beker N. Hydro mechanical characterization of compacted treated sediments on drying-wetting paths
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- 114 Sahli L., El Hadeif El Okki M., Afri-Mehennaoui F.Z., Mehennaoui S. Application of Sediment Quality Guidelines in the Mapping of Metal Pollution in Rhumel, Boumerzoug, Enja and Kebir rivers, and their tributaries (Algeria): case of one hydrological year sampling
- 154 Nonnis O., Di Mento R., Calcagni L., Di Lorenzo B., Gabellini M., Cicero A.M. Environmental monitoring of offshore platforms: an assessment of sediments alterations based on the Frechet distance
- 155 Nonnis O., Paganelli D., La Valle P., Nicoletti L., Gabellini M. Grain size variations of surface sediments induced by dredging activities for beach nourishment
- 158 Alharbi O., Phillips M., Williams A. Sediment origin and composition: southern Red Sea coast, Saudi Arabia
- 166 Netshitungulwana R., Yibas B., Gauert C., Elsenbroek J.H., Novhe O.N. Forensic determination of the Sources of the Metals using Stream Sediments and Soil Geochemistry in the Middle Great Letaba and Shingwedzi Catchment, Giyani, South Africa
- 169 Maggi C., Nonnis O., Bacci T., Rande F.S., Izzi A., Gabellini M. Environmental monitoring of effects related to laying of marine cables and pipelines: a proposal of a methodological approach
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- 173 Silva V., Loreda J., Fernandez-Martinez R., Larios R., Ordoñez A., Rucandio I. Hg and As fractionation in sediments downstream Los Ruedos Hg mine site (Asturias, Northern Spain)
- 174 Horn Filho N.O. Siliciclastic sedimentation of the inner continental shelf as a source area of sandy sediments for the recovery of eroded beaches on the island of Santa Catarina, SC, Brazil

182 Konstantinos Evangelinos N.J., Aloupi M., Kalantzi O., Stasinakis A., Sazakli E., Leotsinidis M., Siavalas G., Christanis K., Vakros J., Karapanagioti H.K. INtegrating Sustainability in PartIcipatoRy Decision-making (INSPIRED): Asopos Sediment Monitoring

185 Garcia-Ordiales E., Loredo J., Covelli S., Esbri J.M., Lopez-Berdonzes M.A., Higuera P.L. Heavy metals in bottom sediments of Castilseras artificial water reservoir (Almadén, Spain)

188 Papa S., Bartoli G., Barbato G., Vitale A., Fioretto A. Effects of heavy metal contaminations on physical-chemical properties and microbial activities in the rizosphere along the Sarno River (Italy)

189 Vakros J., Karapanagioti H.K. Potentiometric titrations for the characterization of Asopos sediments interaction with Cr(VI)

196 Sazakli E., Siavalas G., Fidaki A., Leotsinidis M., Christanis K., Karapanagioti H.K. PAHs in a proclaimed waste industrial receiver (Asopos River)

Sediment and contaminant fate and transport (theme C)

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37 Mirlean N. The effect of urban activity on mercury contamination in estuarine sediments (Patos estuary, Brazil)

46 Ghernaout R., Boualem R. Temporal variability of sediment concentration and hysteresis phenomenon in Wadi Mina river basin (NW-Algeria)

48 Chenoy L., De Weireld G., Hantson A.L. Characterization and geochemical modelling of metallic trace element release from treated dredged sediments.

51 Fu K., Song J., Zhang J., Su B. Spatio-temporal distribution and Provenance of heavy metal pollution in the bed sediments in the Upper Mekong River system

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74 Hamdoun H., Baraud F., Leleyter L., Lemoine M., Basset B. Mobility of metal in dredged sediment treated with hydraulic binders

76 Hamdoun H., Baraud F., Leleyter L., Hennequin D., Lemoine M., Basset B. Environmental risk assessment of dredged sediments from English Channel

90 Nair S. Impact of Sedimentation in a Tropical Backwater Ecosystem in India

91 Bahari Derakhshan S. Estimating the fall velocity of sediment particles

95 Ladipo M.K., Ajibola V.O. Leachable Metals and Ecotoxicity Assessment of Sediment from the Lagos Lagoon, Nigeria

104 Ding A., Pan C., Zheng L., Xie E., Cui S. Effect of sediment physicochemical properties on phosphorus sorption for different size particles

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160 Ahmadi H., Foroughi A. Numerical modeling of density current flow in channels

164	Duester L., Fabricius A.L., Schmukat A., Meermann B., Schmid H., Ternes T.A.	Non-standardised laboratory test methods to investigate metal(loid)s in sediments and surface water - speciation, fractionation, fate and impact
168	Fabricius A.L., Lars D., Ecker D., Ternes T.A.	A new micro profiling and micro sampling system for investigations at the sediment water interface
179	Denis A.C., Van Campenhout J., Bouffieux A., Bousmar D., Houbrechts G., Hallot E., Veschkens M., Petit F.	Quantitative and qualitative evaluation of sediment and contaminant transport in the Samme river catchment (Brabant Region - Belgium)
180	Hennebert P., Charrasse B., Doumenq P., Tixier C., Rebischung F.	Total, degradable, labile, percolable, colloidal, soluble (measured and calculated) fractions of hydrophobic organic contaminants in five sediments before and after aerobic and anaerobic maturation
192	Cecchetto M., Tait S.	Influence of particle step length distribution in modelling bed-load transport
195	Ballio F., Brambilla D., Longoni L., Papini M., Radice A.	Can potentialities of hydro-geologic modelling be useful to environmental technologists?
199	Termini D.	Vegetation and sediment transport fluvial processes
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Ecological impact assessment and Risk (theme D)

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55	Bakan G., Akcam E., Simsek A.	Ecotoxicological Evaluation of the Relationship between Acid Volatile Sulfides (AVS)- Metals at Sediment Column
62	Mugnai C., Onorati F., Pellegrini D., Gabellini M., Regoli F., d'Errico G., Cillari T., Secci M.	Application of "weighted" criteria based on Line of Evidence approach to evaluate and classify the sediment quality in the harbour of Trapani (Sicily, Italy)
66	Bizzotto E., Fuchsman P., Colombo F.	Evaluation of sediment toxicity and risk assessment for benthic organisms: a case study
153	Yang F., Cao M., Li H.E., Wang X.H., Bi C.F.	Trapping sediment and ecological effects of the seabuckthorn flexible dam in the Pisha Sandstone area of Northwestern China
175	Bamdow N., Gartiser S., Heisterkamp I., Mathies H., Schoknecht U.	Bio assays as integrated tool for the risk assessment of complex samples
177	Wernick B., Lawrence G.	Setting remedial action objectives to manage contaminated sediments – using a pragmatic risk assessment approach linked to the end site use
178	Wernick B., Jones R.	Protecting the Present while Cleaning up the Past: Environmental Management Planning for a Harbour-wide Sediment Remediation Program
181	Fasulo S., Leonzio C., Colasanti M., Schettino T., Gornati R., Guerriero G., Mancini G., Cappello S., Luciano A.	Systems biology in the study of xenobiotic effects on marine organisms for evaluation of the environmental health status: biotechnological applications for potential recovery strategies

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47	Montanari R., Marasmi C.	A tool for littorals management support in Emilia-Romagna. The Littoral Cells Information and Management System (SICELL)
52	Hoan L.X., Kato S., Burchard H., Riethmueller R.	A combination of shoreline change and inlet models to investigate sedimentation at Enshu Coast, Japan
53	Menchini G., Plazzotta M., Del Negro P., Margon A., Leita L.	Assessment and tasking criteria for the sustainable management of the polluted sediments of the lagoons of Marano and Grado (Italy).

54	De Vincenzo A., Molino B., Telesca V.	The application of the sustainable useful storage capacity approach to the Camastra Reservoir (southern Italy)
68	Bizzotto E., Colombo F., Wenning R.	Relevance of a risk based approach in the management of contaminated sediment: perspective and experiences from Europe
80	Fabiano P., Morroni L., Sartori D., Buttino I., Gaion A., Secci M., Macchia S., Pellegrini D.	Dredging marine sediments in Italian harbours: options for a differentiated use
81	Grandchamp F., van Paassen L., Sutton G., Harrington J., Belhadj E., Masson E., Van Dessel J., Lemiere B., Brakni S.	CEAMaS project : Civil Engineering Applications for Marine Sediments
88	Sadat Helbar S.M., Parvaresh Rizi A., Farhoudi J.	Three dimensional simulations of sediment flushing during complete drawdown in the Barasona dam reservoir (Spain)
112	Andredaki M., Georgoulas A., Hrissanthou V.	Sediment management in reservoirs in order to reduce shoreline erosion: The case of Nestos River, Greece
129	Peck E., Stern E.	Is Sediment Management Really About Managing Sediment? - A 21st Century Perspective
131	Erwan T., Abriak N.E., Benzerzour M.	Cap sediments med: a useful tool for the management of contaminated sediments
144	Sadok A., Zentar R., Abriak N.E.	Optimization of formulation methods of mixture materials with the evolutionary algorithms.
145	Caruana R., Bazzoffi P., Bizzini F., Bravi C., Castelli S., Ceddia M., Chieppa V., De Vita P., Di Nunzio G., Fanelli G., Gambino C., Greco A., La Barbera G., Molino B., Passeri V., Pacheco R., Citterio S., Sapora A.	The problem of sedimentation in the reservoirs of Italian large dams.
183	Simoni S., Vignoli G., Mazzorana B., Macconi P.	Assessment of mutual interactions between control structures, torrential and river sediments
186	Pizette P., Wu K., Rémond S., Becquart F., Abriak N.E.	Perspectives of using Discrete Element Simulations as a numerical tool for sediment studies
203	Saponaro S., Careghini A., Sezenna E., Mastorgio A., Bonomo L.	The Management of Contaminated Sediments: the Italian Situation

Remediation of contaminated sediments (theme I)

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32	Werner D., Sani B., Han Z., Karapanagioti H.	Development of magnetic activated carbon and biochar for PAHs removal from River Tyne Sediment
50	Olst J.	Sediment Capping Projects in the U.S.
65	Choi K.Y., Choi J.Y., Kim K.R., Hong G.H., Kim C.J., Sim Y.S.	Bench scale removal tests of uncharacterized organic matter in marine sediments using surfactants and chemical oxidants
71	Malarbi D., Falciglia P.P., Vagliasindi F.G.A.	Enhanced electrokinetic decontamination of multi-polluted sediments dredged from Augusta Bay (Southern Italy)
83	Di Gregorio S., Gentini A., Congiu R., Lorenzi R.	The combination of Bio-based and Chemo-physical approaches for the recover of dredged sediments to technosoils
84	Arıman S., Bakan G.	Comparison of Treatment Methods (Ex-Stiu) of Heavy Metals in Contaminated Sediments of The Mid-Black Sea Coast of Turkey
85	Choi J.Y., Hong G.H., Kim K., Kim S.H., Yang D.B., Kim K.T., Ra K.	Separation of butyltins and metals laden solids from dredged material from a drydock using sieving and magnets
86	Cjoi J.Y., Choi K.Y., Hong G.H., Kim K., Kim C.J.	Destruction of PAHs from contaminated marine sediment by washing with surfactants and oxidizing with hydrogen peroxide
94	Tomasevic D., Kerkez D., Dalmacija M., Becelic-Tomin M., Dalmacija B., Roncevic S., Krcmar D.	Application of nano zero valent iron supported with native clay and carboxymethyl cellulose for remediation of Ni and Pb polluted sediment
96	Gardner R., Doody P., Patmont C., Harrison-Rice J.	Learning from the Past to Enhance Contaminated Sediment Remedy Evaluation, Selection, and Implementation

111	Iannelli R., Masi M., Ceccarini A.	Sediment Electrokinetic Remediation of marine metal-polluted silty sediments (Project Life12 ENV/IT/442): preliminary tests for treatment design
127	Taneez M., Hurel C., Lefevre G., Marmier N.	Use of Solid Waste as Adsorbent for Stabilizing Trace Metals in Polluted Sediments
143	Corazza R., Cravin G., Checchin K.	GREEN SITE PROJECT Supercritical fluid technologies for river and sea dredge sediment remediation
147	Ammami M.T., Koltalo F., Benamar A., Wang H.	Improvement of electrokinetic remediation of heavy metals and PAHs from dredged marine sediment
162	Orescanin V., Kollar R., Nad K., Mikulic N. Ponis E., Boscolo R., Feola A., Bonometto A., Rampazzo F.,	Electrochemical treatment of contaminated marine sediments
163	Berto D., Gion C., Noventa S., Renzi P., Tornato A., Geraldini S., Maggi C., Gabellini M.	Phytoremediation techniques applied on Venice lagoon's sediments: preliminary results of a mesocosm and field study
165	Slavik E., Galessi R., Salvetti R., Sardelli F., Preda G., Macchini R., Vanni D.	A sustainable sediment management approach according to pollution levels and final use: pilot plant treatment tests
176	Erby G., Nieddu A., Ruggeri C., Serreli L., Tamburini E., Carucci A.	Batch tests for the optimization of PAHs bioremediation of Mediterranean tourist port sediments
187	Bondo Pedersen K., Ottosen L.M., Jensen P.E., Lejon T.	Applying Multivariate Analysis to Optimise the Electrolytic Remediation of Contaminated Harbour Sediments from Hammerfest, Norway

Beneficial reuse of sediments (civil engineering, environmental restoration, products manufacturing, etc.) (theme J)

18	Cappuyns V., Rousseau S., De Weirtdt V.	Dredged sediments as a resource for brick production: legal, economic and technological possibilities and barriers
19	Vovchenko A.	Sapropel based products
35	Banoune B., Melbouci B., Langlet T.	Study and development of dredged sediment dams and dredging of rivers. Case of Kherrata dam and Soummam rivers in the area of Bejaia in the north of Algeria.
45	Anger B., Thery F., Levacher D.	Strategy for pre-selecting reuse options according to dam fine sediment characteristics
49	Khezami I., Benzerzour M., Abriak N.E.	Valorization of dredged sediments on a subgrade layer: Performing of an experimental plate
58	Zarrad I., Montrelay N., Houessou J., Bouaziz J., Dheilly R.M., Quéneudec M.	Valorisation of marine sediments in organic matrix composites. Feasibility study
59	Madjoudj N., Dheilly R.D., Goullieux A., Quéneudec M.	Valorisation of clayey sediments from aggregate deposits. Influence of the addition of rubber fillers on the thermal behaviour.
63	Ben Allal L., Lamrani S., Ammari M., Azmanu A.	Production of an artificial pozzolana from a dredged marine sediment
64	Rahmani M.C. Sadok A., Mekerta B., Allal A.	Formulation of a clay barrier for waste landfill from a material of sedimentary origin
73	Fall N.M., Rangeard D., Cisse I.K., Jauberthie R., Sall N.A.	Use of estuarine sediments as clayey barriers
97	Mikhailenko R., Porotov A.	St. Petersburg flood protection barrier: Use of bottom sediments for environmental restoration
99	Frederic B., Samira B., Abriak N.E.	A review on recycling of dredged sediments as artificial lightweight aggregates: multiphysics properties and potential applications in construction materials
105	Omar B.	Reuse of sediment dams in the field of civil engineering in Algeria
108	Azrar H., Zentar R., Abriak N.E.	Influence of the rotational speed of the pan granulation on the characteristics of the aggregates containing sediments
115	Cantegrit L., Denot A., Giraud S., Le Calvez C., Eisenlohr L.	Feasibility of French waterway uncontaminated sediments to be used in agriculture
116	Denot A., Cantegrit L., Giraud S., Le Calvez C., Eisenlohr L.	Management of dredged sediment in rivers : application to the Rhone- Alpes region - France
117	Missaoui A., Daoud S., Said I., Bel Hadj Ali I., Lafhaj Z.	About a possible use of dredged marine sediments (Rades harbor, Tunisia) in paving blocks manufacturing

119	Trojanowska-Olichwer A., Biega B., Jakubiak M.	Methane fermentation of freshwater sediments for dam reservoirs restoration
120	Maherzi W., Benzerzour M., Abriak N.E.	Optimization of a new material based with dredging sediment and sand
124	Molino B., De Vincenzo A., Ferone C., Colangelo F., Messina F., Cioffi R.	Sediments recovery in building materials production as an alternative and promising management strategy
150	Watabe Y.	Effective use of dredged soil for reclamation of airport island
151	Achour R., Zentar R.	Methodology of characterization and valorization of the marine sediments in civil engineering
161	Dale N., Hamilton A., Stevenson A., Cunnigam C., Lamont D., Lord R.	Sustainable reuse and recycling of dredged canal sediments in Scotland - Towards zero waste and a circular economy?
171	Terasmaa J., Marzecova A., Kapanen G., Rautam S.	A comparative geochemical characterization of curative muds in major Estonian deposits
184	Fratalocchi E., Preda G., Vanni D., Cianca C.	Reuse of dredged sediments in cutoff walls
190	Brakni S., Abriak N.E.	SEDILAB : Euroregional resource center for management and reuse of dredged sediments
194	Irie M., Tafu M., Tarhouni J.	Using reservoir sediment for drinking water purification
198	Bouguerra S., Cherif S., Tarhouni J.	Characterization of dam sediments in Tunisia for their valorization in bricks
201	Lauwerijssen C., Egbring G.	Using innovative geotextile constructions to alter hydrodynamics of Wormer- en Jisperwater's shallow lakes by re-using sediment

Other themes (themes A, F, G, H, K)

20	Dementjev V.	Innovative technology for sapropel mining
39	Abdelhafid K., Abriak N.E., Benzerzour M.	Valorization the sediments raw and sediment dehydrated by polymer for road construction
40	Croce P., Modoni G., Russo G.	Stabilization and desiccation procedure for the reuse of soft marine sediments
41	Nones M., Paci A., Guerrero M.	Sediment fluidization system for nautical depth maintenance under monitored environmental currents
106	De Angelis P., Liberati D., Sconocchia P., Sconocchia A.	Phyto-dehydration of polluted sediments in an artificial pond
113	Socuvka V., Socuvka J., Malik D.	Innovative method of sediment removal
146	Bianchini A., Pellegrini M., Sacconi C.	Innovative plant for sediment removal from seabed
191	Benamar A., Pantet A., Brasselet S., Bourdin F.	Rheological behaviour of marine sediments for assessing nautical depth
193	Song Y., Benamar A., Ammami M., Wang H.	Dredged sediment dewatering by electrokinetic: effect of combining potential gradient and mechanical load
197	Spadaro P.	Urban Waterfront Rehabilitation and Contaminated Sediment Clean Up, is There a Relationship
202	Zurlo M., Mongiorgi M., Aiello M., Fiordi L.	Geotextile tubes: an economical and environmentally sustainable solution for dewatering, treatment and disposal of dredged sediments from harbours, drainage canals and waterways