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A65 *Bauer I, Jiang J & Kappler A*

208 Origin and Re-Os Systematics of Bitumen Hosted in Lower Cretaceous Volcanic Rocks, Northern Chile
A175 *Cisternas ME & Barra F*

209 Characterization of Aluminum-Pyrocatechol Complexation in Aqueous Systems using Ultraviolet-Visible Spectrophotometry and Scanning Electron Microscopy
A293 *Franke M*

210 Biogeochemical Investigations of the Zunyi Sedimentary Ni-Mo-PGE Ores in the Lower Cambrian Black Shale Formation, South China
A420 *Hu K, Yao S, Pan J, Cao J & Zhou J*

211 Biosorption of Heavy Metals by using *Pseudomonas sp.* MF254A, Bacterial Strain Isolated from the Oil Contaminated Soil
A484 *Kim I, Lee M & Choi A*

212 FT-IR Investigation of the Uranium S-Layer Interaction in Aqueous Solutions
A567 *Li B, Foerstendorf H, Raff J & Bernhard G*

213 Microbial Uranium Mineralization and Hydrocarbon Oxidation in the Qianjia-Dian Deposit, NE China
A570 *Li H, Cai C, He H & Li K*

214 Transcription of *E. coli* on Stringent Promoter Enhanced by Nickel Stress
A586 *Liu C, Tang C, Zhao Z, Yao S, Xue Y & Lian B*

215 Catalytic Potential of Sillicate, Oxide and Sulfide Minerals for the Abiotic Polymerization of Glycine Under High Pressure and Temperature Conditions
A731 *Ohara S, Kakegawa T & Nakazawa H*

216 Nanometric Jarosite/alunite in Carbonaceous Matter Rich Cherts: Marble Bar Drill Core (#1 Abdp): Indications for Acid-Sulfate Conditions in a Hydrothermal System
A742 *Orberger B, Wirth R, Rividi N, Wagner C, Hofmann A, Gallien JP, Montagnac G & Quirico E*

217 Organometallic Complexes from Ni-Mo-PGE Black Shales in South China – Combination of Bioactivities, Hydrothermal Venting and Phosphate Deposition during Global Cambrian Biological Explosion
A763 *Pašava J, Sklodowska A, Vymazalová A, Biernat A, Kribek B & Orberger B*

218 Biogeochemical Insight on the Origin of Carbonaceous Matter in Metalliferous Lowest Cambrian Black Shale, South China
A959 *Spangenberg JE & Frimmel HE*

219 Elemental and Isotopic Fractionation in Some Organs of Bamboo
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A245 *Durães N, Bobos I & Ferreira da Silva E*

221 Micro-Raman Spectroscopy and Optical Reflectance Studies of Coals with Different Rank
A361 *Guedes A, Valentim B, Rodrigues S, Costa A, Marques M & Flores D*

222 TEM Investigations of Bacterial Effects on Biotite Dissolution
A414 *Hopf J, Langenhorst F & Merten D*

223 Fungal Transformation of Lignite in Overburden Dumps
A975 *Stiebitz E & Kassahun A*

224 X-Ray Photoelectron Spectroscopy Study of Coals with Different Rank
A1050 *Valentim B, Costa A, Guedes A, Boavida D, Marques M & Flores D*

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226 Trace Element and Ca Isotope Ratios in Calcareous Dinoflagellate Cysts of Thoracosphaera Heimii
A364 *Gussone N, Zonneveld K & Kuhnert H*

227 Mineralized Microbial Mats with Extreme Lanthanum Enrichments in the Tunnel of Äspö, Sweden
A390 *Heim C, Simon K, Quéric N-V & Thiel V*

228 Endolithic Aspartic Acid as an Proxy of Fluctuations in the Growth of Coral Skeleton
A473 *Kawahata H, Gupta L & Suzuki A*

229 Investigation of Biominerals in the Human Knee of Advanced Osteoarthritis
A540 *Lammers L, Fuerst M & Wiesmann H-P*

230 Probing the Organic-Mineral Interface (OMI) at the Molecular-Level in Model Biominerals
A658 *Metzler R, Evans J, Zhou D, Beniash E, Wilt F, Abrecht M, Coppersmith S & Gilbert P*

231 Experimentally Determined Biomediated Sr^{2+} Partitition Coefficient for Dolomite
A872 *Sanchez-Roman M, Vasconcelos C, de Luca Rebello Wagener A, Plötze M & McKenzie JA*

232 Amino Acids in Shungite Matter of Precambrian Sedimentary Rocks of Karelia
A921 *Shanina S & Golubev Y*

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235 Tracer Analyses as a Tool to Validate the Effectiveness of Pump-And-Treat Measures in the Field
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236 Tracking Groundwater Contribution to Rivers by Combining Hydrogen Isotopes and Cation Concentrations
A134 *Bureau M, Carignan J, France-Lanord C & Francois L*

237 Isotopic Tracing of Water Filtration in Oxidizing, Fractured Porous Media
A240 *Dubinina E, Petrov V & Golubev V*

238 Determination of SO_4^{2-} Sources using Stable S Isotope for Two Karstic Ground Water Systems, Guizhou Province, Southwest China
A541 *Lang Y-C, Liu C-Q, Li S-L, Gu F & Zhao Z-Q*

239 Analysis of Water Movement Through an Unsaturated Soil Zone in a Volcanic Island using Oxygen and Hydrogen Isotopes
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240 Evolution of Carbon in the Karst Groundwater, Zunyi, China
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242 Sr Isotopic Composition in Variscan Granitoids, Silurian Metasediments and Waters from the Boticas Area (Northern Portugal)
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243 Geochemistry of Kairouan Plain, Tunisia
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A1137 *Yamanaka M, Nakano T & Tase N*

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245 Biologically-Mediated Weathering of Minerals from Nanometre Scale to Environmental Systems
A125 *Brown D, Banwart S, Smits M, Leake J, Bonneville S, Benning L, Haward S & Ragnarsdottir V*

246 Patterns in Major and Trace Element Dynamics during Long-Term Decomposition of Boreal Forest Litters
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A734 *Ohta A, Imai N, Terashima S, Tachibana Y, Okai T, UJiie-Mikoshiba M & Kubota R*

249 Continental Scale Geochemical Mapping and the Geochemical Background
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250 Evaluation of Oxidation State and Potential for Bio-Signatures in Fe-Bearing Minerals in Deep-Sea Minerals using Spectroscopic Approaches
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251 New Method (HR-SF-ICP-MS) to Measure Biosilica Production and Dissolution in Ocean Surface Waters
A297 *Fripiat F, Corvaisier R, Navez J, Elskens M, André L & Cardinal D*

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252 Crystal Orientation Selection during Growth of Brachiopod Shell Calcite
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253 Intra-Test Variation in the Trace Element Composition of Planktonic Foraminifera: Implications for Biomineralization Processes
A384 *Hathorne E, James R & Lampitt R*

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254 Metal Reduction and Formation of Nanometer-Sized Magnetites by Facultative Iron-Reducing Bacteria Isolated from Inter-Tidal Flat Sediments
A485 *Kim Y, Roh Y, Oh J, Park B, Jang H, Suh Y & Lee S*

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255 Physicochemical Speciation of Trace Metals during the Mesoscale Iron Enrichment (SEEDS II) in the Western North Pacific
A704 *Nakatsuka S, Sohrin Y, Norisuye K, Okamura K, Takeda S & Nishioka J*

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256 Mineral Phase Identification of Coral Skeletal Microstructure
A958 *Sowa K, Watanabe T, Seto Y, Motai S & Nagai T*

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257 Non-Heterogenous Oxygen Isotopic Distribution in Coral Microstructures
A1092 *Watanabe T, Sowa K, Sakamoto N & Yurimoto H*

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A222 *Devyatova A, Bortnikova S & Raputa V*

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259 Mineralogy and Alteration of fly Ash from Secondary Pb Metallurgy
A263 *Ettler V, Johan Z, Mihaljevic M, Sebek O, Bezdicka P & Klementova M*

260 Trace Metal Dynamics and Transport in a Polar Glacier-Dominated Watershed: Taylor Valley, Antarctica
A289 *Fortner S, Lyons WB, Witherow R, Welch K & Olesik J*

261 Identifying the Sources of PGE, Re and Sb in Road Dust and Soils along Highways
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263 Arsenic and Mercury in Brown and Hard Coals from Deposits of Poland
A762 *Pasieczna A, Bojakowska I & Paulo A*

264 Monitoring of Atmospheric Particulate Matter Around Raipur Central India
A764 *Patel KS, Jaiswal NK, Saathoff H, Schurath U & Leisner T*

265 TEM Evidence for Lead Transport by Bacteria in Atmospheric Deposition
A777 *Perdrial N, Elsass F & Liewig N*

266 Tracing Global Fallout using ^{210}Pb and Artificial Radionuclides Inventories in Mountainous Area
A806 *Pourcelot L, Le Roux G, Renaud P, Vray F & Masson O*

267 εNd(0) Values of Different Grain Sizes of Eolian Sand and Dust, China
A819 *Rao W, Chen J & Ji J*

268 Different Accumulation of Pb, Zn, and Cd in River Sediments and in Lake Sediments Originated from Ancient Zinc Smelting Activities in Northwestern Guizhou, Southwestern China
A1141 *Yang Y, Jin Z, Bi X, Li F, Liu J & Fu Z*

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A543 *Lanoux A, Schmidt S, Etcheber H, Condom T & Saari H-K*

270 ^{226}Radium Activities and ^{226}Ra/Ba Ratios on the Kerguelen Plateau, Southern Ocean (KEOPS Project)
A115 *Bourquin M, van Beek P, Reyss J-L, Souhaut M, Jacquet S, Dehairs F, Charette M & Jeandel C*

271 *In situ* Natural Radionuclides Transport and Retardadation in Coastal Groundwater of the Southern China
A140 *Cai M, Huang Y, Chen M & Liu G*

272 Ra and Th Adsorption Coefficients in Lakes – Estimate Based on a Whole Ecosystem Study in Lake Kinneret (Sea of Galilee)
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273 Short-Lived Naturally Occurring Radioisotopes (^{234}Th, ^{7}Be, ^{210}Pb) as a Tracer for Particle Transport in the Gironde Fluvial-Estuarine System (France)
A864 *Saari H-K, Schmidt S & Blanc G*

274 Using ^{222}Rn as Environmental Tracer for Assessing Groundwater / Surface Water Interaction
A894 *Schmidt A & Schubert M*

275 Using ^{222}Rn for Assessing Nutrient Transfer into the Sea via SGD
A906 *Schubert M, Schmidt A, Scholten J, Rutgers van der Loeff M & Schlüter M*

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A133 *Bura-Nakic E, Krznaric D, Helz GR & Ciglenecki I*

277 Molybdenum Speciation in Anoxic Aquatic Systems: HPLC-ICPMS Determination of Molybdate and Thiomolybdates
A262 *Esnault L, Viollier E, Jézéquel D, Thiam A & Pèpe M*

278 Voltammetry of Chalcogenide Nanoparticles; The Preconcentration Mechanism at Hg(0) Surfaces
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279 Radiocesium Distribution in North-West Coast of the Kola bay
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280 Trace Element Behavior in Sulfidic Porewaters of the Oder Estuary, SW Baltic Sea
A903 *Scholz F & Neumann T*

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282 Trace Element Fractionation during Exsolution of Garnet from Clinopyroxene in an Eclogite Xenolith from Obnazhennaya (Siberia)
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283 Stress Induced Redistribution of Y and HREE in Garnet during High-Grade Polymetamorphism
A258 *Erambert M, Rohr T & Austrheim H*

284 Mass Transfer by Fluid and Duration of Oxygen Isotope Exchange during Contact Metamorphism at Hirao-Dai, Japan
A299 *Fukuyama M, Morishita Y & Nishiyama T*

285 Inter-Diffusion of Mg/Ca in Synthetic Polycrystalline Carbonates at Elevated Temperature and Pressure
A424 *Huang W-L*

286 The Mechanism of Oxidation and "Leaching" of Ilmenite during Natural and Experimental Alteration
A440 *Janssen A, Geisler T, Putnis C & Putnis A*

287 The Replacement of Calcium Carbonate by Hydroxyapatite
A467 *Kasioptas A, Perdikouri C, Putnis C & Putnis A*

288 Thermodynamic Modeling of REE Fractionation during the Interaction of Monazite with Chloride-Carbonate Fluid
A509 *Kolonin G & Shironosova G*

289 *In situ* Measurements vs. Lattice Strain Model Calculations: Distribution of REE between Grt and Cpx in Garnet Peridotites from Vitim (Siberia)
A677 *Mocek B, Hellebrand E & Ionov D*

290 Temporal Change of a Layer Sequence in Reaction Zones in the System Dolomite – Quartz – H_2O
A720 *Nishiyama T, Tanoue T, Tominaga A & Isobe H*

291 Phase Decomposition in Non-Isotropic Multi-Component Systems: The Alkali Feldspar Example
A781 *Petrishcheva E & Abart R*

292 Lithogeochemistry of Parautochthonous Variscan Metasediments (Northern Portugal). Implications of Metamorphism and Metassomatism
A818 *Ramos R & Ribeiro MDA*

293 Formation of Liesegang Rings in Borosilicate Glass during Experimental Alteration
A887 *Scheiter D, Janssen A & Geisler T*

294 Garnet Growth in the Zermatt-Saas Fee Eclogites
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295 Experimental Study on the Mechanism of Metasomatism in the System between Scheelite and Huebnerite
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296 Ca-Sr Fractionation between Margarite, Anorthite, Calcite, and Fluid at 400-500°C and 3.5-5 Kbar
A1016 *Thiele M, Doersam G, Franz G, Liebscher A & Gottschalk M*

297 Trace Element Partitioning between Mg-Hastingsite and Alkali Basaltic Melt in Volcanic Environment
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299 Oxygen Gas-Phase Formation in Iron Chemical Gardens
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301 The Behaviour of Strontium and Zinc during Ageing of Fe(III) Hydroxide
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303 A752 Interaction of Copper with Humic-Coated Gibbsite
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304 A830 EXAFS Analysis of Reactive Nanoscale Iron Oxidation in Water
Reinsch B, Lowry G & Kim C

305 A868 Adsorption Behavior of Gold (I and III) Complexes on Manganese Dioxide
Sakomoto S, Yonezu K, Yokoyama T, Okaue Y, Imai A & Watanabe K

306 A955 Sequential Oxidation of Arsenite by Both Permanganate and the Reaction Byproduct
Song K, Lee G, Kim S & Eum C

307 A994 Adsorption of Oxyanions on Schwertmannite and its Post-Adsorption Behavior
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308 A16 Stone Decay in Two-Mica Granite Buildings of Northern Portugal
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309 A47 Palaeneutration of Prehistoric Sites of Ghaleh Khan and Valeran: A Case Studies
Azizipoor T, Khademi F & Safari M

310 A168 Authigenic Carbonates in the Chinese Loess-Paleosol Sequence: Morphologic and Isotopic Study
Chen Y, Sheng X, Chen J & Ji J

311 A210 Reactivity of a Ryolitic Glass
Declercq J & Oelkers E

312 A212 Impact of Gold Mining on Levels of Naturally Occurring Radionuclides in Aquatic Ecosystems of the Witwatersrand Basin, South Africa
Deissmann G & Barthel R

313 A235 The Oxidative Breakdown of PAHs by Manganese Oxide Tailings
Dowding C, Johnson K, Hutchings T, DeJager C & van der Waals J

314 A299 Prevention of Asbestos Floating from Outdated Construction Materials
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315 A Synchrotron Radiation Laboratory for Environmental Studies
A348 *Göttlicher J, Steininger R, Kramar U, Majzlan J, Nehrke G & Zöger N*

316 Relationships between Magnetic Properties and Heavy Metals in Nerium Oleander Leaves and Soils (Viseu, Central Portugal)
A340 *Gomes C, Dias J, Neves L, Rocha A & Gomes E*

317 Remediation of Azo Dyes by Natural Manganese Oxides
A341 *Goncalves I, Dowding C, Johnson K & Brown A*

318 The Use of Overbank Sediments Data for Geochemical Mapping and Contamination Assessment: Results from Selected Floodplains of Serbia
A346 *Gordanic V, Ciric A & Jovanovic D*

319 Arsenic Mineralogy in High-As Wastes at Historic Gold Mine Sites, New Zealand
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A379 *Hanski E, Mäkelä K, Manninen M, Kujala K & Perämäki P*

321 Validation of Normalisation Concepts for *in situ* μ-EDXRF Data
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322 Environmentally Hazardous Trace Elements of Eocene Coal Deposits in the North Anatolia, Turkey
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323 Adsorption of As(III) and As(V) onto Viviantite – Evaluation as a Sink for Arsenic in Bengali Aquifers
A432 *Islam F, Lawson M, Lythgoe P, Wogelius R, Thinnappan V, Lloyd J, Charnock J & Polya D*

324 Trials into the Effect of Manganese Oxide Addition to Composted Municipal Solid Waste
A441 *Jarvis Z, Brown L, Worrall F & Dowding C*

325 Uraniferous Carbonate Rocks from Mt. Kithaeron, Central Greece
A457 *Kafandaris F-C, Godelitsas A, Kostopoulos D, Xanthos S, Chatzitheodoridis E & Baltatzis E*

326 Trace Element Contents of Jurassic Coals from Eastern Taurides, Turkey
A463 *Kara Gülbay R & Korkmaz S*

327 Distribution of Environmentally Significant Trace Elements of the Tertiary Bituminous Shale Deposits in NW Anatolia, Turkey
A512 *Korkmaz S & Kara Gülbay R*

341 A794 Chemical Compositions of Zircon from an U-Mine Area, Portugal
Pinto M, Silva M & Neiva A

342 A802 Evaluating Magnetic Suceptibility as a Rapid Scoping Tool for Assessing Trace Metal Contaminated Soils
Polya D, Zananiri I, Kondoloupou D, Atzemoglou M, Lythgoe P, Charnock J, McBeth J, Fraser S & Gault A

343 A830 Metals from Agriculture in Oxic Fluvial Sediments: A Case Study in Western Iberia
Reis A, Parker A & Alencoao A

344 A922 Remediation of Heavy Metals with Species and Green Vegetables
Sharma S, Patel KS, Jena VK & Patel SK

345 A926 Pedogenic Origin Dolomite Developed within Calcium Concretion of Tertiary red Clay at Loess Plateau, China
Sheng X, Chen J & Ji J

346 A932 Inorganic Arsenic Speciation in Contaminated Soils, in Korea
Shin M, Yoon H, Park M & Yoon C

347 A964 Soil Contamination due to Heavy Metals from Tannery Industries: A Case Study of Jajmau (Kanpur) and Unnao Industrial Areas, Uttar Pradesh, India
Srinivasa Gowd S, Murthy NN & Govil PK

348 A1017 Mineralogical Investigation of Fly Ashes of the Electricity Power Stations of the Ptolemais–Amynteon District (Greece)
Thomaidis S, Kostakis G & Stratakis A

349 A1044 Preliminary Geochemical Results on the CO_2 Georeactor Sequestration Test at the Ogachi HDR Site
Ueda A, Yajima T, Satoh H, Ozawa A, Kaieda H, Ito H, Ohsumi T & Kato K

350 A1143 Heavy Metal Concentrations in Soils and Tea Plants in Sürmene and Çayeli Area (NE -Turkey)
Yaylali Abanuz G, Tüysüz N & Tüfekçi M

351 A1151 Geochemical Fractionation and Anthropogenic Metal Pollution in Sediments of Nakagawa River in Tokyo, Japan
Zakir Hossen M & Shikazono N

352 A1156 Environmental Geochemistry in Relation to Agriculture and Human Health in Hainan Island, China
Zhang G-L, Gong Z-T, Zhao Y-G, Zhao W-J & Yang J-L

353 A1166 Artificial Radionuclides Recorded in Lacustrine Sediments in Bosten and Qinghai Lakes, NW China
Zheng J, Wu F, Yamada M, Liao H & Wan G

354 Climatic and Environmental Glaciochemical Records from a Climatic Interaction Region, East Antarctica over the Past 780 Years (1215-1996 A.D.)
A1170 *Zhou L, Li Y & Cole-Dai J*

355 Investigation on the Origin of Se-Rich Soils and Selenosis in Yutangba, China
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A280 *Firat Ersoy A, Ersoy H & Gültekin F*

357 Hydrogeochemical Properties of Ladik Hot Water Spring (Samsun, Turkey)
A384 *Hatipoglu E, Gültekin F & Firat Ersoy A*

358 The Application of Granular Activated Carbon on Remediation in Trichloroethylene Contaminated Groundwater
A397 *Heo J-H, Lee D-H & Chang H-W*

359 Assessment of Aquifer Vulnerability using Statistical Methods and GIS
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360 Characteristics of Trace Elements in Groundwater from Basaltic Aquifers with Natural Land Uses in Jeju Island
A504 *Koh D-C, Ryu J-S, Kang B-R, Chae G-T, Koh G-W & Park K-H*

361 Technology of Accounting of Water Exchange Parameters at Prospecting and Exploration of Carbon Dioxide-Bearing Mineral Waters
A585 *Lisenkov AB*

362 Genesis of Low-Mineralised Groundwater in a Fissured Sandstone Aquifer, Odenwald, Germany – Where has all the Sulfate Gone?
A600 *Ludwig F, Stober I & Bucher K*

363 Water-Rock Interactions at the New Gotthard Rail Base Tunnel, Switzerland
A912 *Seelig U, Stober I & Bucher K*

364 To Harmonize the Water Resources System of Lake Taihu Basin in China using Circular Economy Notion
A1084 *Wang D, Wu J, Shi Y & Gong Z*

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