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May 9th, 2020 - the term milieu souterrain superficiel mss has been used since the early 1980s in subterranean biology to categorize an array of different hypogean habitats in general terms a mss habitat represents the underground network of empty air filled voids and cracks developing within multiple layers of rock fragments its origins can be diverse and is generally covered by topsoil'

'an ecological survey of the invertebrate munity at the

March 14th, 2020 - we studied the ecological continuum between caves and the associated network of fissures milieu souterrain superficiel mss in an

hypogean site in the graian alps italy"vertical distribution of spiders in soil

May 15th, 2020 - research studies of the shallow subterranean habitats as environments for arthropods have been sparse up to this point using subterranean traps we studied the distribution of spiders in soil profile over a depth span of 5 95 cm at six sites although almost 40 of individual specimens 1088 in total were obtained from the epigeon 5 cm depth spiders colonized all parts of the soil"the subterranean environment l ambiente sotterraneo

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'the alluvial mesovoid shallow substratum a new

April 14th, 2020 - in this paper we describe a new type of subterranean habitat associated with dry watercourses in the eastern iberian peninsula the alluvial mesovoid shallow substratum alluvial mss historical observations and data from field sampling specially design'

'subterranean ants the case of aphaenogaster cardenai

February 11th, 2020 - the habitat first described as milieu souterrain superficiel and widely known as mss juberthie et al 1980 juberthie 1981 1983 2000 vailati 1988 giachino and vailati 2005 2006 among others is a hypogean environment generally formed by the fragmentation of the bedrock and

accumulation of debris which contains a wide network of small voids and fissures'

'beetles sciencedirect

May 26th, 2020 - the species sharing the most remarkable adaptations to subterranean life very long legs and antennae slender body were included in other morphological types the aphaenopsian type for ground beetles named after the genus aphaenops from pyrenean chain fig 1a and the three facies pholeuonoid leptodiroid and scaphoid for the slender species of leptodirini with a different bination'

'the study of hidden habitats sheds light on poorly known

March 16th, 2020 - the deep subterranean environment as a potential model system in ecological biogeographical and evolutionary research the study of hidden habitats sheds light on poorly known taxa spiders of the mesovoid shallow substratum zookeys apr 2019"**pubblicato il terzo volume wba handbooks I ambiente**

May 25th, 2020 - hypogean life concepts and collecting techniques this book is dedicated to their decennial studies on subterranean biology that like no other discipline of naturalistic investigation can offer to whom is involved very deep emotions terrible fatigues and that joy of discovery that feeds the research'

'two new typhloreicheia species from sardinia and their

January 3rd, 2017 - the same authors recalled that besides reicheiina other apparently unrelated representatives of the subfamily scaritinae show reduced or

absent eyes and wings small size and depigmentation in correlation with their subterranean way of life and other blind clivinini belong to the subtribe clivinina as the genus trogloclivina deuve 2003 from papua new guinea'

'two new typhloreicheia species from sardinia and their

March 7th, 2020 - both caves are located in the part of the island where many highly specialised subterranean carabid beetles are localised t monacha is apparently related to two other species of the same area i e t onnisi casale amp magrini 2004 and t elegans dodero 1916 t ilianae is closely related to t henroti jeannel 1957 known from a cave near dali"**ghilarov ms 2012 ecological principles of the evolution of**

May 12th, 2020 - ghilarov ms 2012 ecological principles of the evolution of terrestrial animals from compsci 243 at johns hopkins university'

'giachino p vailati d 2010 the subterranean environment

May 6th, 2020 - isbn 978 88 903323 2 5 hypogean life concepts and collecting techniques a5 cm 21 x 15 132 stran ekologický papír neobsahující chlór m?kká vazba text v ital?tin? a angli?tin? similarly the faunas associated with the subterranean environment are more clearly defined'

'arthropod biodiversity patterns point to the mesovoid

May 27th, 2020 - the determinants of biodiversity patterns in the subterranean habitat called mesovoid shallow substratum mss are not well understood in this study thirty three scree slopes at high altitudes were selected across the sierra de guadarrama national park in central spain to investigate the effect of ten environmental variables on the abundance and species diversity of the spider and springtail'

'flourishing in subterranean ecosystems euro mediterranean

May 15th, 2020 - the subfamily plusiocampinae has a subterranean life style with many species distributed in the euro mediterranean area the subterranean environment hypogean life concepts and collecting techniques wba handbooks volume 3 world biodiversity association verona italy'

'changing perspectives on subterranean habitats springerlink

May 24th, 2020 - in this chapter we review the status of the hypothesis that the dichotomy between shallow and deep subterranean habitats is a fundamental one updating the original book length presentation of this'

'a new remarkable subterranean beetle of the rhodopes

January 19th, 2017 - a new remarkable subterranean beetle of the rhodopes paralovricia gen n beroni sp n belonging to lovriciina new subtribe coleoptera vailati d 2010 the subterranean environment hypogean life concepts and collecting techniques wba handbooks verona 3 132 pp giachino pm vailati d in press review of the anillina of greece'

'pdf two new typhloreicheia species from sardinia and

April 22nd, 2020 - typhloreicheia monachasp n and typhloreicheia ilianaesp n are described from two caves of central eastern sardinia nuoro province the bue

marino cave and the nurra e pradu cave respectively both caves are located in the part of the island where many highly specialised subterranean carabid beetles are localised typhloreicheia monacha is apparently related to two other species of the'

'citation subterranean biology

May 19th, 2020 - a shallow subterranean habitat represents an environment differing from deep caves by its close contact with the upper layers of soil under 10 metres and thus better access to nutrients r??i?ka 1999 moseley 2009 culver and pipan 2014 colluvial mesovoid shallow substratum mss is a type of this aphotic habitat consisting of a network of cracks voids among rock fragments at the'

'a new remarkable subterranean beetle of the rhodopes

May 29th, 2019 - a new remarkable subterranean beetle of the are very rare because of their hidden bionomy for the time being we have very scanty information on the life history of these vailati d 2010 the subterranean environment hypogean life concepts and collecting techniques wba handbooks verona 3 132 pp giachino pm vailati d in press'

'pdf subterranean ants the case of aphaenogaster

May 8th, 2020 - the hypogean environment poses several difficulties for life and ad aptation of the formicidae tinaut and lo pez 2001 in relation to their particular mode of social life and their'

'csiro publishing invertebrate systematics

May 18th, 2020 - speciation in subterranean habitats is monly explained as the result of divergent selection in geographically isolated populations conversely the

contribution of niche partitioning in driving subterranean species diversification has been rarely quantified the present study integrated molecular and morphological data with a hypervolume analysis based on functional traits to investigate a'

'rd springer

March 24th, 2020 - integration of molecular genetic techniques and geometric morphometrics represent a valuable tool in the resolution of taxonomic uncertainty and the identification of significant units for conservation we bined mitochondrial dna cytochrome c oxidase subunit ii gene sequence data and geometric morphometric analysis to examine taxonomic status and identify units for conservation in four'

'spatial and temporal dynamics of invertebrates dwelling

March 11th, 2020 - interior spaces of the forested rocky debris mss represent a transition zone between the surface and deep underground spaces and a place of animal adaptation to underground life they serve as a refuge for relict fauna as well the study was conducted in the limestone scree slopes in sivec national nature reserve ?ierna hora mts western carpathians elevation about 500 m a s l covered'

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'testing the uniqueness of deep terrestrial life

May 10th, 2020 - most terrestrial life is restricted to a thin layer between the bedrock soil interface and the canopy of the vegetation with some tens of meters at most or 10⁶ to 10⁵ of the earth radius'

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April 13th, 2020 - the number of subterranean taxa discovered in the north of western australia has substantially increased due to the requirements for environmental surveys related to mining development challenges in estimating subterranean biodiversity and distributions are related to lack of knowledge of taxa with convergent morphological characters in a largely unobservable ecosystem setting an integrated

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May 23rd, 2020 - we studied occurrence and morphological adaptations of two species of porrhomma down to 135 cm soil depth porrhomma microps simon 1884 inhabited soil layers at depths between 5 and 135 cm porrhomma aff myops was found at depths of 35 95 cm specimens of both species were depigmented and had highly reduced eyes pared with the epigeian p pygmaeum blackwall 1834 p myops which'

'*dynamics of collembola hexapoda in a forested limestone*

*May 20th, 2020 - ecological forms reflecting their affinity to the subterranean environment and to temperature parameters fluctuating over the year of the 62 collembolan species identified 28 were assigned to troglomenes 19 to subtroglophiles 12 to eutroglophiles and 3 to troglobionts"***natureplus library amp archives**

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'core

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'a molecular phylogeny of alpine subterranean trechini

May 19th, 2020 - the alpine region harbours one of the most diverse subterranean faunas in the world with many species showing extreme morphological modifications the ground beetles of tribe trechini coleoptera carabidae are among the best studied and widespread groups with abundance of troglobionts but their origin and evolution is largely unknown we sequenced 3 4 kb of mitochondrial cox1 rrnl trnl'

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