
Carbonate Stone Chemical Behavior Durability And Conservation By K Lal Gauri

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April 1st, 2019 - we have developed a simple sol gel treatment procedure that enhances the properties of pure limestones to make them more suitable for mericial use in particular we have improved the mechanical robustness of the stone when treated the stone also has enhanced hydrophobic water repellent and stain resistant properties which have been evaluated'
'long term stability of biodegradable polymers on building
May 15th, 2020 - the chemical changes on the polymer films were observed at the surface and deeper into the interior after weathering the changes in paraloid b72 phb and pla thin films during weathering were monitored by fourier transform infrared ft ir spectroscopy figs 1 3 and 5 variations observed due to chemical changes on the normalized absorption band areas of ft ir spectra of each polymer were'
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May 3rd, 2020 - supplemented with 350 illustrations as well as a web ponent to help in problem solving when fundamental data is available carbonate stone chemical behavior durability and conservation is an indispensable guide for scientists engineers and professionals in the conservation field'
'new nanomaterials for applications in conservation and
May 21st, 2020 - therefore the precipitated barium carbonate is directly bonded to the surface of calcium carbonate crystals and thus the new mineral phase increases its adherence to the stone material 41 43 in this way the consolidant action of the barium hydroxide is based on its carbonation reaction with the carbon dioxide which results in the formation of barium carbonate baco 3"**protection and consolidation of stone heritage by self**
May 19th, 2020 - however these conventional conservation methods have limitations and disadvantages including physical chemical inpatibility e g anic polymers alteration of the stone appearance and'

'carbonate precipitation through microbial activities in
January 20th, 2017 - microbial carbonate precipitation by different microbial activities in natural environments in nature a variety of microanisms is known to induce carbonate precipitation by altering solution chemistry through a wide range of physiological activities castanier et al 1999 riding 2000 dejong et al 2010 maignien et al 2011 de muynck et al 2013 or by serving as a crystal'
'paper aging and degradation recent findings and research
May 22nd, 2020 - the chemical changes occurring within paper thus involve multi parameter processes the purpose of this review which mainly focuses on the most recent decade is to provide a description of the more important changes produced by aging and an update of the new tools available for the study of paper deterioration and its conservation'
'gauri k lal abebooks
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'influence of substrate mineralogy on bacterial
January 24th, 2017 - these results have important implications for the bacterial conservation of ornamental stones other than carbonate stones and demonstrate that the

chemical crystallographic affinity between the substrate and the bacterial biomineral i e the existence or absence of epitaxy is important in controlling both calcium carbonate polymorph selection and bacterial calcium carbonate productivity'

'calcium carbonate caco3 pubchem

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'12th international congress on the deterioration and

May 26th, 2020 - 12th international congress on the deterioration and conservation of stone columbia university new york 2012 2 nyt was used as a building material since ancient times because of its peculiar colour light weight easy workability and good insulating property vs was used as building stone mostly in vicenza verona and padova with'

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'physical and mechanical characteristics of helwan

May 24th, 2020 - stone conservation to preserve monuments from further deterioration the products which have been applied are selected according to their frequent use in the field of stone conservation table 1 shows the most important parameters of fresh helwan protected limestone and applied stone consolidants'

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'bioprotection springerlink

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May 14th, 2020 - the way in which the intrinsic factors are correlated that affects the durability of the substrate depends on its chemical and mineralogical position and the petrophysical characteristics of the stone hydric and mechanical properties which are related to the texture structure and pore system stone materials are often heterogeneous displaying anisotropies'

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'an innovative methodology for the non destructive

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'the influence of porosity and bioclastic contents on

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May 20th, 2020 - supplemented with 350 illustrations as well as a web ponent to help in problem solving when fundamental data is available carbonate stone chemical behavior durability and conservation is an indispensable guide for scientists engineers and professionals in the conservation field"**bioinspired alkoxysilane conservation treatments for**
May 19th, 2020 - stone due to increasing air pollution and salt damage results in the loss of invaluable cultural heritage artworks this has prompted the design and

application of novel and effective conservation treatments here we study the effect of amorphous calcium carbonate acc and oxalate aco nanoparticles synthesized through an emulsion assisted'

'carbonate stone chemical behavior durability and

May 2nd, 2020 - written by two conservation technology experts with an intimate knowledge of the restoration of major world monuments carbonate stone chemical behavior durability and conservation covers properties of carbonate rocks affecting the weathering of stone weathering mechanisms in polluted and natural environments plus biodeterioration mathematical modeling for reaction rates and durability"**influence of pore structure on the effectiveness of a**
March 22nd, 2020 - a ureolytic biodeposition treatment was applied to five types of limestone in order to investigate the effect of pore structure on the protective performance of a biogenic carbonate surface treatment protective performance was assessed by means of transport and degradation processes and the penetration depth of the treatment was visualized by microtomography'

'new inanic materials anic hybrid for preservation

May 25th, 2020 - this behavior in atmospheric conditions makes this class of chemicals suitable for consolidation of carbonate stones plasters and wall paintings and also potentially for ph buffer to hinder the degradation of cellulose based materials such as wood and papers"**influence of temperature on the effectiveness deepdyve**
May 9th, 2020 - so far most studies on microbiologically induced carbonate precipitation for limestone conservation have been performed at temperatures optimal for the activity of the calcinogenic bacteria i e 20 28 c successful application in practice however requires adequate performance in a wide range of environmental conditions therefore the aim of this study was to select microanisms'

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'innovative consolidating products for stone materials

May 17th, 2020 - the expected features making them petitive respect to conventional conservation products are their i patibility with the main materials used in built heritage like stone and wood even painted and glass ensuring enhanced durability re treatability sustainability and efficiency ii easy and safe handling during applications iii satisfactory selling prices'

'4 stone consolidants conservation

May 27th, 2020 - in addition paraffin waxes are among the most durable stone conservation materials 16 54 and can immobilize soluble salts 58 waxes have been applied to stone by applying the wax dissolved in anic solvents 16 78 148 by immersing a stone object in molten wax 58 or by applying molten wax to preheated stone 150'
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'on site monitoring of the performance of innovative

May 11th, 2020 - innovative nanostructured treatments for stone conservation based on dispersions of photoactive tio2 nanoparticles recently studied in our research group provided interesting results after laboratory testing unfortunately it is almost impossible to accurately reproduce in the lab the plexity of field exposure conditions it is then of crucial importance to evaluate the behaviour and'

'alcohol dispersions of calcium hydroxide nanoparticles for

May 14th, 2020 - alcohol dispersions of ca oh 2 nanoparticles the so called nanolimes are emerging as an effective conservation material for the consolidation of stone mortars and plasters present in old masonry and or mural paintings to better understand how this treatment operates to optimize its performance and broaden its applications here we study the nano and microstructural characteristics"**venice istrian stone**
May 2nd, 2020 - istrian stone is one of the most durable materials in venetian architecture due to its nonporous physical and chemical makeup because of this durability it is well worth the time and costs of conservation work as the cleaning and consolidation will enhance the stone s durability'

'natrite saltwiki

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