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In this study, we explore the effect of phenylmethylsilicone oil (PSO) addition amount and viscosity in a fouling release coating based on polydimethylsiloxane (PDMS). The surface properties, mechanical properties, anti-fouling and drag-reduction performance of the coating were studied. Meanwhile the influence of the basic properties of the coating on the anti-fouling and drag-reduction ...

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In general, before amorphous coatings can be used in service, it is necessary to gain a comprehensive understanding of the impact damage mechanism, and the factors that could influence coating life. However, over the past decade, a limited amount of research [, ,] has been carried out on the impact behavior of amorphous coatings.

[Influence of coating thickness on the impact damage mode ...](#)

As illustrated in Fig. 1, the different MoSi₂ coating structures have mainly two types: (a) there

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is a bond layer/diffusion barrier layer between the MoSi₂ coating and the substrate, (b) the as-deposited Mo layer is residually unsiliconized during the pack cementation. Sun et al. [] fabricated a type(a) MoSi₂ coating by HAPC/SAPS combination processes on Niobium alloy.

Influence of different coating structures on the oxidation ...

The contribution of glass coating as a process variable has been studied experimentally. The double cup extrusion test has been employed to study the influence of glass coating thickness and chemistry in hot forging condition. Ring compression tests have been conducted to investigate the contribution of graphite lubricant.

The influence of glass coating on the forging of nickel ...

The influence of surface roughness and coating on the impulse breakdown voltage in SF/sub 6/. Abstract: The surface roughness of SF/sub 6/ insulated systems has a significant influence on the breakdown voltage, especially at high gas pressures. Small surface irregularities can reduce the breakdown voltage. A thin dielectric coating could be a possible remedy.

The influence of surface roughness and coating on the ...

In summary, the influence of PDA coating on the thermal stability of energetic materials LLM-105 was studied by comparing the thermal behavior of LLM-105 and the so-synthesized under various heating conditions. We found that the thermal behavior of coating materials PDA is the key factor affecting the thermal stability of LLM-105, and such effect is remarkably exhibited with a low heat-exchange rate between the samples and environment.

Influence of polydopamine coating on the thermal stability ...

The experimental results show that tungsten coating, as a buffering layer, plays a stress-relaxing role and brings about fewer cracks in the Ni-based matrix near diamond grains. Graphitization of W-coated diamond after brazing is much slighter than that of uncoated diamond and Ti-coated diamond, according to the morphology and Raman spectra.

Influence of tungsten coating on microstructure and ...

Ammonium nitrate fertilizers have a tendency to cake during storage. The aim of this study was to examine the effectiveness of organic coatings for preventing the caking of ammonium nitrate fertilizers and to assess the influence of the composition and physicochemical properties of the anti-caking agents used as coatings for fertilizers on their effectiveness.

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The degree of adhesion of the coating to the substrates is very important when defining possible industrial applications of the DLC coatings. In order to study the influence of the interlayer on the coating's adhesion, DLC were grown onto AISI 316 L stainless steel substrates using two different interlayers.

Influence of the TixSi and TixSi/a-Si:H interlayers on ...

Influence of PbS nanoparticle polymer coating on their aggregation behavior and toxicity to the green algae *Dunaliella salina*. Author links open overlay panel Hajar Zamani a Ali Moradshahi a Hamed Dehdashti Jahromi b Mohammad Hosein Sheikhi b. Show more. Share. Cite.

Influence of PbS nanoparticle polymer coating on their ...

Influence of titanium coating on the biocompatibility of a heavyweight polypropylene mesh. An animal experimental model. Scheidbach H(1), Tannapfel A, Schmidt U, Lippert H, Köckerling

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Influence of titanium coating on the biocompatibility of a ...

The influence of the PEG coating on the long-term fate of NGO was examined by histopathological observation of the main organs, including the liver, lung, and spleen, 3 months after injection (Figure 3C). The number of NGO aggregations in the liver, lung, and spleen from NGO-PEG-treated mice was significantly reduced compared with such aggregations in NGO-treated mice, indicating that the PEG coating promoted clearance of NGO from these organs.

Influence of polyethylene glycol coating on ...

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The influence of coatings based on the levels of Ag in the digestive gland was as follows: . The surface coatings readily influenced the estimated bioaccumulation factor ((concentration in the digestive gland + gills/added concentration in water) × hepatic somatic index) for nAg which was 0.8, 1.5, 5, and 8 for Si, bPEI, PVP, and citrate coatings, respectively.

The Influence of Surface Coatings of Silver Nanoparticles ...

Mineral bone growth, and thus fixation of implant to bone, highly depends on surface roughness and porosity. The use of a PEEK coating on the implant shows the potential to reduce stress shielding, but the question of osseointegration arises. Coatings based on porous hydroxyapatite have been used to promote osseointegration.

Influence of PEEK Coating on Hip Implant Stress Shielding ...

Influence of Alumina Particles on Tribology of Autocatalytic Ni-P Coatings at High Temperature: 10.4018/IJSEIMS.2021010101: The present work considers the effects of incorporation of hard Al₂O₃ particles on the structure, microhardness, and tribological behavior of electroless Ni-P

Influence of Alumina Particles on Tribology of ...

Influence of octacalcium phosphate coating on osteoinductive properties of biomaterials J Mater Sci Mater Med. 2004 Apr;15(4):373-80. doi: 10.1023/b:jmsm.0000021104.42685.9f. Authors P Habibovic 1 , C M van der Valk, C A van Blitterswijk, K De Groot, G Meijer. Affiliation 1 Institute of Biomedical Technology, Twente University, Department ...

Influence of octacalcium phosphate coating on ...

Self-catalytic degradation of iron-bearing chemical conversion coating on magnesium alloys ☐ Influence of Fe content. July 2020; Frontiers of Materials Science 14(7) DOI: 10.1007/s11706-020-0512-x.

Self-catalytic degradation of iron-bearing chemical ...

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