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apr 7 2025 nist researchers have found special atomic patterns called quasicrystals in 3d printed aluminum alloys quasicrystals increase the strength of 3d printed aluminum the researchers

may 22 2019 the team then contributed data to the developing materials innovation infrastructure making it easier for anyone to design new coinage materials in the future one of the big goals for

aug 1 2024 summary chips manufacturers use a variety of high purity solid materials such as silicon germanium copper gold silver gesi algan etc in

their processes reliable chips require that

may 30 2024 the new algorithm allows for fine tuning this relationship to create auxetic materials that behave in ways you couldn t find in nature our research is a beautiful example of theoretical

jan 29 2025 abstract in alignment with the materials genome initiative and as the product of a workshop sponsored by the us national science foundation we define a vision for materials

materials genome initiative federal government wide nist mgi standard reference materials plastics carbon nanotubes high strength alloys artificial bone and joint replacements are just some

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materials needed for optical science research and industrial applications the interaction of light with matter is different at different wavelengths and the techniques to measure the optical properties differ

the award will support applied materials in developing and scaling a disruptive silicon core substrate technology for next generation advances in packaging and 3d heterogeneous integration

sep 16 2025 critical minerals and materials cm are essential for current and emerging technologies relevant to national security energy and communications industries in the u s the departments of

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