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fundamentals of materials

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Materials science is a syncretic discipline hybridizing metallurgy, ceramics, solid-state physics, and chemistry. It is the first example of a new academic discipline emerging by fusion rather than fission. Many of the most pressing scientific problems humans currently face are due to the limits of available materials and how they are used.

Materials science - Wikipedia

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The Ti 3 C 2 T x flake acts as an inhomogeneous nucleation agent, similar to the other precursors such as graphene and BN used in the growth of 1 L MoS 2 [20][21][22].

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Callister and Rethwisch's Fundamentals of Materials Science and Engineering 4th Edition continues to be the go-to text for basic materials science concepts. Written in a clear and concise way, this text will help you to understand the fundamentals of structures and property types as they relate to the three basic material types: metals, ceramics, and polymeric materials.

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Materials Science Engineering

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