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Stress-strain curve: LEI M, SUN G, YANG G, WEN B. A computational mechanical constitutive modeling method based on thermally-activated microstructural evolution and strengthening mechanisms[J]. International Journal of Plasticity, 2024, 173

doi:<https://doi.org/10.1016/j.ijplas.2024.103881>

FLAPW single-point energy calculation and structure optimization: ZHANG S, GAO X, SONG H, WEN B. An adaptive preconditioning scheme for the self-consistent field iteration and generalized stacking fault energy calculations[J]. Computer Physics Communications, 2024, 304

doi:<https://doi.org/10.1016/j.cpc.2024.109300>

High-temperature elastic constants : WEN B, SHAO T, MELNIK R, et al. Temperature and pressure dependent geometry optimization and elastic constant calculations for arbitrary symmetry crystals: Applications to MgSiO₃ perovskites[J]. Journal of Applied Physics, 2013, 113(10)

doi: <https://doi.org/10.1063/1.4794360>

SHAO T, WEN B, MELNIK R, et al. Temperature dependent elastic constants for crystals with arbitrary symmetry: Combined first principles and continuum elasticity theory[J]. Journal of Applied Physics, 2012, 111(8)

doi: <https://doi.org/10.1063/1.4704698>

SHAO T, WEN B, MELNIK R, et al. Temperature dependent elastic constants and ultimate strength of graphene and graphyne[J]. J Chem Phys, 2012, 137(19): 194901.

doi: <https://doi.org/10.1063/1.4766203>

mechanical property: WEN B, XU B, WANG Y, et al. Continuous strengthening in nanotwinned diamond[J]. npj Computational Materials, 2019, 5(1)

doi: <https://doi.org/10.1038/s41524-019-0256-2>

FENG X, XIAO J, WEN B, et al. Temperature-dependent hardness of zinc-blende structured covalent materials[J]. Science China Materials, 2021, 64(9): 2280-2288.

doi:<https://doi.org/10.1007/s40843-020-1620-4>

SUN G, FENG X, WU X, et al. Is hardness constant in covalent materials?[J]. Journal of Materials Science & Technology, 2022, 114: 215-221.

doi:<https://doi.org/10.1016/j.jmst.2021.10.032>

XIAO J, YANG H, WU X, et al. Dislocation behaviors in nanotwinned diamond[J]. Sci Adv, 2018, 4(9): eaat8195.

doi:<https://doi.org/10.1126/sciadv.aat8195>

FENG X, SUN G, ZHANG S, WEN B. A unified non-empirical strength model[J]. Frontiers in Materials, 2023, 9

doi:<https://doi.org/10.3389/fmats.2022.1049956>

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8.1 The Development Team reserves the right to update, modify, or terminate any part of the Software at any time without notice.

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11.1 This Agreement will automatically terminate if you violate any terms of this Agreement without any notice.

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Name:

Research Group and Group Leader:

University/Research Institution:

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Date(yyyy-mm-dd):