

Publications 2024

Les publications sont triées par ordre alphabétique (1er auteur)

Afin d'identifier les contributions par équipes de recherches, des carrés colorés ont été mis en place avec le code suivant : ■ PCNANO ■ ST ■ NEE ■ D2SM ■ TSM

■ F.R. Akhmedzhanov, N.M. Makharov, A.M. Lomonosov, V.V. Temnov, *Anisotropic attenuation of GHz-frequency acoustic phonons and the Grüneisen tensor in MgO crystal*. Applied Physics Letters, (124) (2024).

■ F. Alassani, N. Ollier, L. Canioni, Y. Petit, T. Cardinal, *Femtosecond laser activation of the photochemistry of bismuth and associated three-dimensional sub-micron fluorescence patterning*. Journal of Luminescence, 275 (2024) 120728.

■ F. Alassani, N. Ollier, G. Raffy, F. Alexandre, A. del Guerzo, L. Canioni, T. Cardinal, Y. Petit, *Photochemistry of bismuth- and silver-containing glasses under femtosecond laser irradiation: energy transfers and 3D-localized background-free Near-Infrared Fluorescence Emission*. The Journal of Physical Chemistry C, 128(20) (2024) 8296-8306.

■ A. Ataei, G. Grissonnanche, M.-E. Boulanger, L. Chen, É. Lefrancois, V. Brouet, L. Taillefer, *Phonon chirality from impurity scattering in the antiferromagnetic phase of Sr₂IrO₄*. Nature Physics, 20 (2024) 585-588.

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■ A. El Sahili. *Des spectres à l'énergie totale : au-delà de l'approximation GW pour concevoir des interactions effectives*. Ecole Polytechnique, 2024, Jan 26. PhD

■ A. El-Sahili, F. Sottile, L. Reining, *Total energy beyond GW: exact results and guidelines for approximations*. Journal of Chemical Theory and Computation, 20(5) (2024) 1972-1987.

■ M. Ghanem, P. Dollfus, J. Saint-Martin, R. Sen, N. Vast, J. Sjakste, *Electron-phonon coupling and transient dynamics of hot carriers: from interpretation of photoemission experiments to transport simulations in devices*. Proceedings of SPIE - The International Society for Optical Engineering, 12992 (2024) 1299207.

■ ■ S. Ghimire, K.R. Joshi, M. Konczykowski, R. Grasset, A. Datta, M. Tanatar, D. Bérubé, S.-Y. Xu, Y. Fang, F. Huang, P.P. Orth, M.S. Scheurer, R. Prozorov, *Anisotropic multiband superconductivity in 2M-WS₂ probed by controlled disorder*. Physical Review Research, 6 (2024) 013124.

■ ■ S. Ghimire, K.R. Joshi, E.H. Krenkel, M. Konczykowski, R. Grasset, M. Tanatar, S. Chen, C. Petrovic, R. Prozorov, *Controlled disorder-induced peak effect in the single-crystalline Ca₃Rh₄Sn₁₃ superconductor*. Physical Review B, (110) (2024) 104521.

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