

Françoise Remacle  
Publication list- April 2025

291 publications in international peer reviewed journals, h Index : 52, > 10 400 citations(Google scholar), h Index 44, > 7700 citations (Scopus).

- 291 M. Lucchini, M. Cardosa-Gutierrez, M. Murari, F. Frassetto, L. Poletto, M. Nisoli and F. Remacle, *Isotope Effect on the Few-Femtosecond Relaxation Dynamics of the Ethylene Cation*, The Journal of Physical Chemistry A **129** (13), 3063-3070 (2025).
- 290 S. Ghose, A.-S. Duwez, C.-A. Fustin and F. Remacle, *Response of a Tethered Zn-Bis-Terpyridine Complex to an External Mechanical Force: A Computational Study of the Roles of the Tether and Solvent*, The Journal of Physical Chemistry A 10.1021/acs.jpca.4c08639 (2025).
- 289 J. R. Hamilton, R. D. Levine and F. Remacle, *Constructing Dynamical Symmetries for Quantum Computing: Applications to Coherent Dynamics in Coupled Quantum Dots* Nanomaterials **14** (24), 2056 (2024).
- 288 V.-D. Nguyen, L. Wu, F. Remacle and L. Noels, *A quantum annealing-sequential quadratic programming assisted finite element simulation for non-linear and history-dependent mechanical problems* European Journal of Mechanics - A/Solids **105**, 105254 (2024).
- 287 N. Gelfand, K. Komarova, F. Remacle and R. D. Levine, *Nonadiabatic quantum dynamics explores non-monotonic photodissociation branching of N<sub>2</sub> into the N(4S) + N(2D) and N(4S) + N(2P) product channels* Phys. Chem. Chem. Phys. **26**, 3274-3284 (2024).
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- 283 J.R. Hamilton, E. Amarotti, C.N. Dibenedetto, M. Striccoli, R.D. Levine, E. Collini, and F. Remacle *Time-Frequency Signatures of Electronic Coherence of Colloidal CdSe Quantum Dot Dimer Assemblies Probed at Room Temperature by Two-Dimensional Electronic Spectroscopy*. Nanomaterials, **13**, 2096 (2023).
- 282 M. Cardosa-Gutierrez, G. D. Bo, A. S. Duwez and F. Remacle, *Steering the Mechanism of the Furan-Maleimide Retro-Diels-Alder Reaction to a Sequential Pathway with an External Mechanical Force* Chem. Sci., **14** 1263-1271 (2023).
- 281 N. Gelfand, K. Komarova, F. Remacle, and R.D. Levine, *Photodissociation via weak intersystem crossing: Incoherent versus coherent excited-state nonadiabatic dynamics in N<sub>2</sub>*. Physical Review A, **108**(5), 053116 (2023).
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- 279 N. Gelfand, F. Remacle and R. D. Levine, *Recombination of N Atoms in a Manifold of Electronic States Simulated by Time-Reversed Nonadiabatic Photodissociation Dynamics of N<sub>2</sub>* J. Phys. Chem. Lett., **14**, 4625-4630 (2023).

- 278 N. Gelfand, K. Komarova, F. Remacle and R. D. Levine, *On the Energy-specific Photodissociation Pathways of  $^{14}\text{N}_2$  and  $^{14}\text{N}^{15}\text{N}$  Isotopomers to N Atoms of Different Reactivity: A Quantum Dynamical Perspective* The Astrophysical Journal **948** (1), 58 (2023).
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- 274 J. R. Hamilton, E. Amarotti, C. N. Dibenedetto, M. Striccoli, R. D. Levine, E. Collini and F. Remacle, *Harvesting a Wide Spectral Range of Electronic Coherences with Disordered Quasi-Homo Dimeric Assemblies at Room Temperature*, Advanced Quantum Technologies, 2200060 (2022).
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