

Fast and accurate novel quantum molecular design and simulations for disruptive innovative applications.



Molecular modelling & design

Chemical reactions, molecular qubits, and molecular collisions and interactions.



Offering:

- Theoretical and computational models.
- Algorithms for molecular-based parts.

Leveraging:

- Quantum chemistry.
- Quantum molecular dynamics.
- HPC and quantum computing.



Efficient algorithms HPC/QC

Smart design tailored to customer needs using HPC and quantum algorithms and simulations.



What makes us different?

We develop real time-dependent quantum models and computational tools for quantum molecular sensing and molecular modeling and design by leveraging our expertise in quantum chemistry, quantum molecular dynamics, and quantum control. We enable our customers to achieve accurate designs, thus reducing the cost of R&D lab work and materials, and speeding the time to market.

Quantum molecular sensing & control

Space sensors, communications, astrophysics, cybersecurity, and electric batteries.



Board Team

Taha Selim

- Founder & CEO MolKet.
- Ph.D. candidate, quantum theoretical chemistry, Radboud University, the Netherlands.
- M.Sc. of quantum physics, lasers, & materials.

Alain Chancé

- Chief Business Officer (CBO) MolKet.
- Lead Consulting & Project Management team.
- Quantum software & research engineer.
- Qiskit Advocate.
- Ingénieur civil des Mines, France.

Research & industries

- Chemical design & reactions.
- Energy & electric batteries.
- Quantum sensing & control.
- Aerospace & automotive technologies.
- Astrophysics.
- Algorithms, computing & Optimization.
- Cybersecurity using molecular systems.

Method:

Quantum molecular modeling requirements

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Theory & Modeling

Construct the algorithm

Code



Cloud APIs

Computing/Simulations

CPUs GPUs QPUs
TPUs ASIC AI

Optimize analyze

Real time-dependent quantum molecular model

Contact us:

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