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

CO₂

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.

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

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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, astrophyics, 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 & industires

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

Method:

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Quantum molecular modeling requirements	Theory & Modeling	Construct the algorithm	Code	Hybrid optimizer	Cloud APIs	Computing/Simulations			Optimize analyze	Real time-dependent quantum molecular model
						CPUs	GPUs	QPUs	ML	AI
						TPUs	ASIC AI			

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