Journal of Mathematical Chemistry
Editor-in-Chief: P.G. Mezey

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The Journal of Mathematical Chemistry (JOMC) publishes original, chemically important
mathematical results which use non-routine mathematical methodologies often
unfamiliar to the usual audience of mainstream experimental and theoretical chemistry
journals. Furthermore JOMC publishes papers on novel applications of more familiar
mathematical techniques and analyses of chemical problems which indicate the need for
new mathematical approaches.

Mathematical chemistry is a truly interdisciplinary subject, a field of rapidly growing
importance. As chemistry becomes more and more amenable to mathematically rigorous
study, it is likely that chemistry will also become an alert and demanding consumer of new
mathematical results. The level of complexity of chemical problems is often very high, and
modeling molecular behaviour and chemical reactions does require new mathematical
approaches. Chemistry is witnessing an important shift in emphasis: simplistic models
are no longer satisfactory, and more detailed mathematical understanding of complex
chemical properties and phenomena are required. From theoretical chemistry and
quantum chemistry to applied fields such as molecular modeling, drug design, molecular
engineering, and the development of supramolecular structures, mathematical chemistry
is an important discipline providing both explanations and predictions. JOMC has an
important role in advancing chemistry to an era of detailed understanding of molecules
and reactions.

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