

INTRODUCTION

FOREWORD

Borislav Kovačević and Tajana Begović

Croat. Chem. Acta 2024, 97(4), XI–XII

Tomislav Cvitaš – List of Publications

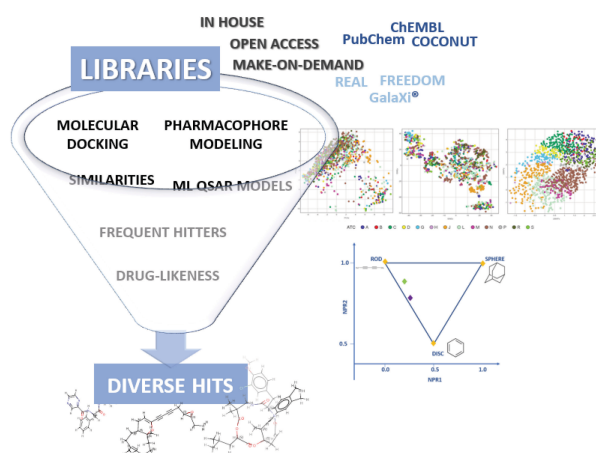
Croat. Chem. Acta 2024, 97(4), XIII–XX

SCIENTIFIC ARTICLES

REVIEW

The State of the Art on Chemical Databases and Libraries

Višnja Stepanić, Dalibor Hršak, Renata Kobetić



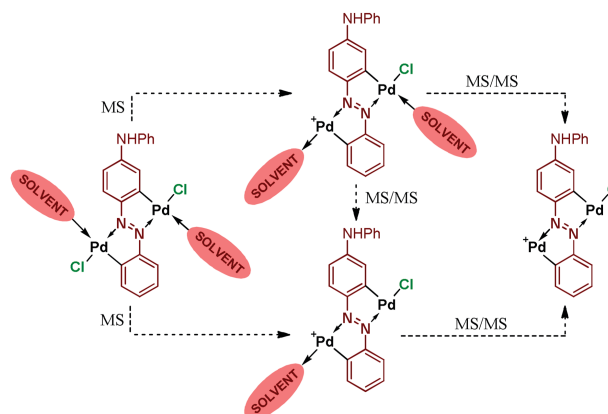
Croat. Chem. Acta 2024, 97(4), 145–156

DOI: 10.5562/cca4130

ORIGINAL SCIENTIFIC ARTICLE

ESI-MS and DFT Study of Solvent Bonding in Dicyclopalladated 4-Phenylaminoazobenzene

Snježana Kazazić, Senada Muratović, Manda Ćurić, Marina Juribašić Kulcsár



Croat. Chem. Acta 2024, 97(4), 157–165

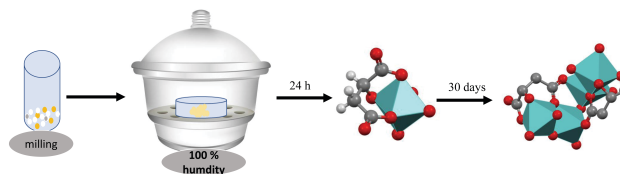
DOI: 10.5562/cca4073

Synthesis and Structure of Malato Molybdenum(VI) Complexes: Δ - $[\text{Co}(\text{en})_3][\text{MoO}_3(\text{l-mal})] \times \text{H}_2\text{O}$ and Δ - $[\text{Co}(\text{en})_3]_n[\text{Mo}_4\text{O}_{11}(\text{l-mal})_2(\text{H}_2\text{O})_2\text{Na}]_n \times 4n \text{H}_2\text{O}$

Dino Kuzman, Vladimir Damjanović, Marina Cindrić

Croat. Chem. Acta **2024**, 97(4), 167–173
DOI: 10.5562/cca4086

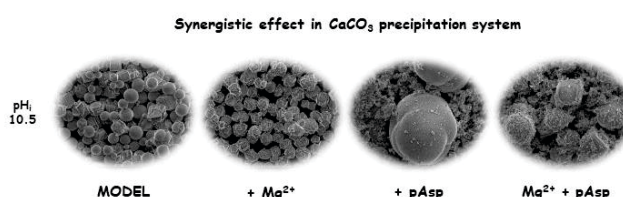
The liquid-assisted ball milling followed by vapour-assisted ageing, applied as one of methods in the synthesis of malatomolybdate anion, has enabled the identification of $\{\text{MoO}_3(\text{L-mal})\}$ as reaction intermediate in obtaining $\{\text{Mo}_4\text{O}_{11}(\text{L-mal})_2(\text{H}_2\text{O})_2\text{Na}\}_n$.



Synergistic Effect of Additives in CaCO_3 Precipitation System at Different Initial pH

Iva Vojtkuf, Marko Andrašić, Damir Kralj, Jasminka Kontrec, Branka Njegić Džakula

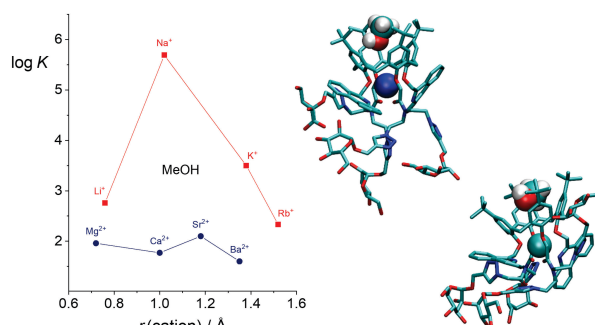
Croat. Chem. Acta **2024**, 97(4), 175–187
DOI: 10.5562/cca4098



Complexation of Alkali and Alkaline Earth Metal Cations by Fluorescent Glycoconjugated Calix[4]arene Derivative: Thermodynamic and Computational Studies

Matija Modrušan, Nikola Cindro, Andrea Usenik, Katarina Leko, Lucija Glazer, Renato Tomaš, Gordan Horvat, Josip Požar, and Vladislav Tomišić

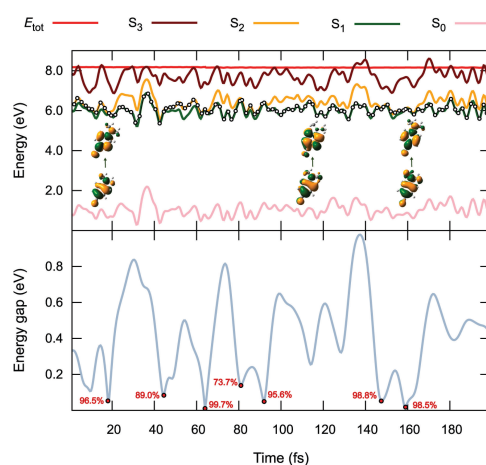
Croat. Chem. Acta **2024**, 97(4), 189–203
DOI: 10.5562/cca4115



Advantages and Limitations of Landau-Zener Surface Hopping Dynamics

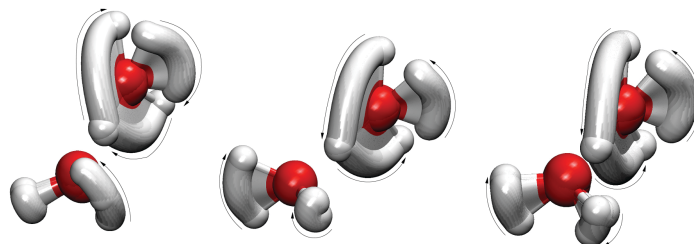
Nina Tokić, Tomislav Piteša, Antonio Prlj, Marin Sapunar, Nađa Došlić

Croat. Chem. Acta **2024**, 97(4), 205–215
DOI: 10.5562/cca4133



Tunneling Splittings of the Protonated Water and Water Dimer

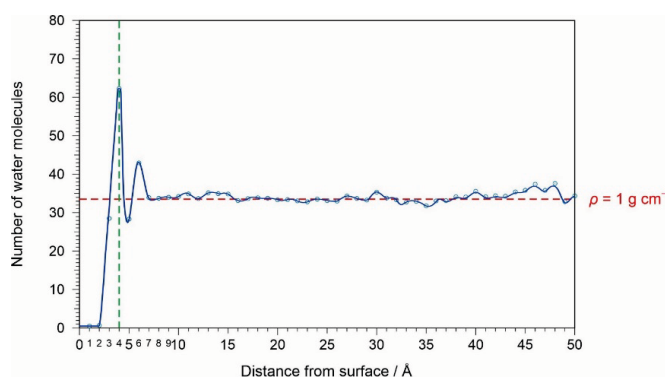
Tea Babić, Mihael Eraković, Marko T. Cvitaš



Croat. Chem. Acta **2024**, 97(4), 217–229
DOI: 10.5562/cca4132

Diamond/Aqueous Electrolyte Interface: Experimental and Theoretical Approaches

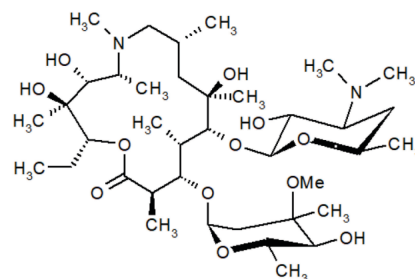
Antun Barišić, Danijel Namjesnik,
Tomica Hrenar, Tajana Begović



Croat. Chem. Acta **2024**, 97(4), 231–241
DOI: 10.5562/cca4138

The Evolution of Pharmaceutical Solids: From Early Polymorphism to Cutting-Edge Drug Development

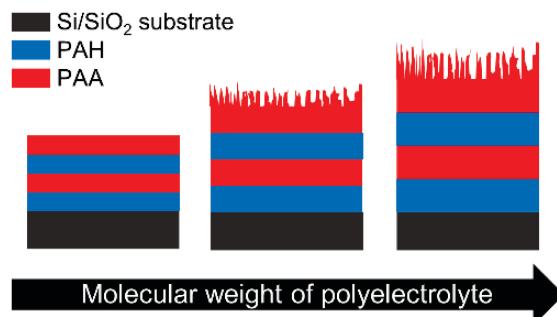
Aleksandar Danilovski, Ernest Meštrović



Croat. Chem. Acta **2024**, 97(4), 243–259
DOI: 10.5562/cca4154

Effect of Polyelectrolyte Molecular Weight on the Formation and Properties of Polyelectrolyte Multilayers

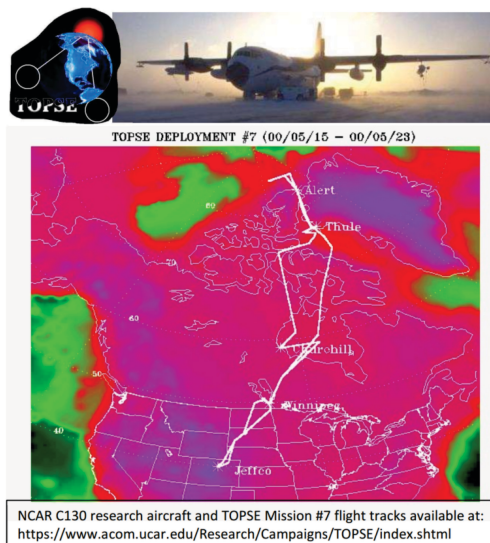
Tin Klačić, Matej Masjar, Davor Kovačević



Croat. Chem. Acta **2024**, 97(4), 261–274
DOI: 10.5562/cca4142

A Simple Method for Evaluating Photochemical Dependencies in the Atmosphere

Katja Džepina, Sasha Madronich



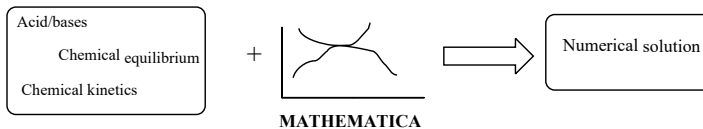
Croat. Chem. Acta **2024**, 97(4), 275–283

DOI: 10.5562/cca4143

NOTE

Mathematica as Equation Solver in Chemistry

Igor Novak



Croat. Chem. Acta **2024**, 97(4), 285–289

DOI: 10.5562/cca4063