



Bivalent metal complexes of a novel Schiff base of vitamin B6: green synthesis, characterization, DFT studies, AIM analysis and antibacterial studies

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Received: 20 July 2022 / Accepted: 5 September 2022 / Published online: 19 September 2022
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Abstract

Herein, a new pyridoxal Schiff base (**HL**) and its Mn(II), Cu(II) and Zn(II) complexes have been synthesized, where the used amine in Schiff base formation was 4-aminopyridine. All of the investigated compounds have been synthesized in methanol as well as two choline chloride deep eutectic solvents. The synthesized compounds have been characterized by using IR, NMR, Mass and UV–Vis spectroscopic methods. Also, the optimized geometries, the tautomerism, assignment of the NMR chemical shifts and IR bands as well as exploring the frontier orbitals of the synthesized species have been calculated using the Density Functional Theory (DFT) approaches. Methanol solution of the **HL** Schiff base involves its Enol tautomer. The deprotonated **L**[–] species acts as an anionic-bidentate ligand in structure of the synthesized $[ML_2]$ complexes. The calculated IR wavenumbers and NMR chemical shifts are good in consistent with the corresponding experimental values, confirming validity of the optimized geometries for the investigated compounds. The covalent level and strength of the coordinative bonds as well as the intramolecular H-bonds have been examined using the Atoms In Molecules (AIM) analysis. Complexation to metal ions increased antibacterial activity of the **HL** Schiff base, where the Mn(II) complex showed a considerable antibacterial activity.

Keywords Schiff base · Pyridoxal · Deep eutectic solvent · DFT · Antibacterial activity

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Studies In Philosophinquiry

[Anonymous AC00615717]

Studies In Philosophinquiry:

Philosophical Inquiry with Children Gilbert Burgh,Simone Thornton,2018-12-07 Philosophy in schools in Australia dates back to the 1980s and is rooted in the Philosophy for Children curriculum and pedagogy Seeing potential for educational change Australian advocates were quick to develop new classroom resources and innovative programs that have proved influential in educational practice throughout Australia and internationally Behind their contributions lie key philosophical and educational discussions and controversies which have shaped attempts to introduce philosophy in schools and embed it in state and national curricula Drawing together a wide range of eminent scholars and practitioners in the field of educational philosophy this anthology the first of its kind provides not only a historical narrative but an opportunity to reflect on the insights and experiences of the authors that have made history The collection is divided into three parts The overarching theme of Part I is the early years of Philosophy for Children in Australia and how they informed the course that the philosophy in schools movement would take Part II focuses on the events and debates surrounding the development and production of new materials including arguments for and against the suitability of the original Philosophy for Children curriculum In Part III key developments relating to teaching philosophy in schools are analysed This collection of diverse views critical appraisals and different perspectives of historical currents is intended to stimulate thought provoking questions about theory and practice and to increase general awareness both nationally and internationally of the maturation of philosophy in schools in Australia It is also intended to encourage readers to identify emerging ideas and develop strategies for their implementation

[The Oxford Handbook of Philosophy in Music Education](#) Wayne D. Bowman,Ana Lucía Fregá,2012-05-25 In The Oxford Handbook of Philosophy in Music Education editors Wayne D Bowman and Ana Lucia Fregá have drawn together a variety of philosophical perspectives from the profession s most exciting scholars from all over the world Rather than relegating philosophical inquiry to moot questions and abstract situations the contributors to this volume address everyday concerns faced by music educators everywhere Emphasizing clarity fairness rigour and utility above all The Oxford Handbook of Philosophy in Music Education will challenge music educators all over the world to make their own decisions and ultimately contribute to the conversation themselves

[In Community of Inquiry with Ann Margaret Sharp](#) Ann Margaret Sharp,2017-08-09 In close collaboration with the late Matthew Lipman Ann Margaret Sharp pioneered the theory and practice of the community of philosophical inquiry CPI as a way of practicing Philosophy for Children and prepared thousands of philosophers and teachers throughout the world in this practice In Community of Inquiry with Ann Margaret Sharp represents a long awaited and much needed anthology of Sharp s insightful and influential scholarship bringing her enduring legacy to new generations of academics postgraduate students and researchers in the fields of education philosophy philosophy of education Philosophy for Children and philosophy of childhood Sharp developed a unique perspective on the interdependence of education philosophy personhood and community that remains influential in many

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Henry J. Koren,1966 *Music Education Research* Peter Miksza,Julia T. Shaw,Lauren Kapalka Richerme,Phillip M. Hash,Donald A. Hodges,2023 Designed to be used as a primary text in introductory research methods courses Music Education Research An Introduction aims to orient even the most novice researchers toward basic concepts and methodologies Offering sustained attention to historical philosophical qualitative quantitative and action research approaches the book includes overviews of how to read interpret design and implement research within each framework Readers will also find advice for conducting a review of research literature scholarly writing and disseminating research All in all the book serves as an invitation to consider how conducting research can serve to satisfy curiosities while also contributing to our collective professional knowledge Drawing from classroom tested material and the authors many collective years of experience as instructors of research method courses and mentors to music education graduate students this book is a must have resource for masters and doctoral students in search of a thorough and approachable overview of music education research **Studies in Philosophy Prepared in Commemoration of the Seventieth Birthday of George Holmes Howison** Evander Bradley McGilvary,1904 **A Practical Guide to Qualitative Research** Farhad Daneshgar PhD,2023-02-16 The book focuses on practical aspects of writing an academic thesis preparing a research proposal applying for a research grant and publishing in academic journals The book consists of ten modules each corresponding to one academic research threshold providing references and associated links clarifying notes examples and practical advice on various research methodology topics Topics cover the entire range of basic to advanced concepts and issues with additional references provided for the benefit of more specialized investigation by the reader The typical audience of the book include postgraduate students research supervisors early career researchers potential referees of academic journal articles and potential applicants of research grants Annual online updates will also provide to the readers upon request when purchasing the book *Pragmatism in Philosophical Inquiry* Nicholas Rescher,2016-05-24 This book showcases the history and theory of pragmatism and its alignment to the sensibilities of contemporary analytic philosophy It does this not only by describing its mode of operation and explaining its legitimating rationale but also by substantiating its claims by a series of instructive case studies The unifying insight of this approach is that the natural criterion of merit within

any goal oriented enterprise be its orientation practical or cognitive pivots on its contribution to the effective and efficient realization of the aims at issue The aim of this volume is to describe and illustrate this broadened conception of pragmatism as a far reaching and many sided approach to philosophical inquiry Theoretical considering apart it offers a variety of case studies to illustrate the range and fertility of this approach Nicholas Rescher has published extensively on the history and theory of pragmatism and on its alignment to the sensibilities of contemporary analytic philosophy over the last 30 years

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Pritchard provides a deliberate and convincing argument for a starting point for the discussion of moral development on in which self regard and empathy provide equally essential groundings for individual morality Drawing essential elements from the work of Reid Strawson Rawls Kohlberg and Gilligan he builds a comprehensive framework for tracing moral development from childhood one that allows human morality to be grounded in both reason and emotion and that recognizes the importance to morality of justice and rights as well as caring and responsibility **Catalogue** Brown University,1893

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