



NIGERIAN LIBRARY ASSOCIATION (NLA)
NIGER STATE CHAPTER

2022 **Annual**

WORKSHOP/CONFERENCE

BOOK **OF** **ABSTRACTS**

DECEMBER, 2022



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FOREWORD

Information and Communication Technologies (ICTs) have undoubtedly revolutionized library and information services. This book of abstracts contains summaries of research reports on several fundamental issues reflecting on the innovations in library and information services in the current digital era. The range of topics covered in this book are very current, quite contemporary and in tune with the global standards and practices in library and information service occupation.

The authors in their presentations assume that the readers have prior knowledge on the traditional library and information services as a requisite for a better understanding of the contents of this intellectual work. The book is therefore highly rated and recommended as a reference point for both current and future researchers and students in the field of library and information science.

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USE OF OPEN-ACCESS RESOURCES AND DIGITAL PLATFORMS FOR EFFECTIVE TEACHING AND PROFESSIONAL DEVELOPMENT OF SCIENCE TEACHERS IN NIGERIA

By

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The rapid development in scientific innovation and development will require large-scale professional development for all science teachers. Existing research on effective teacher professional development suggests factors that are associated with substantial changes in teacher knowledge and practice, as well as students' science achievement. But the complexity of the educational system continues to thwart the search for a straightforward answer to the question of how to support science teachers' accessibility of open information resources and professional development platforms. The paper examined the use of open-access resources and platforms by science teachers. The paper is hinged on two objectives. The paper revealed that science teachers can access instruction materials freely, such as textbooks, journals, magazines, and video and audio materials. The open-access platforms that science teachers can access information resources freely include PDF

Books World; Planet ebook; LibriVox; Free-e Books.net; eBookLobby; Online Programming Books; and GetFreeEbooks. The paper also showed the digital platforms where science teachers can access professional development. The digital platforms were Coursera, edX, Udemy, Alison, Udacity, LinkedIn Learning, Skillshare, MIT OpenCourseWare, Connections Academy, Academic Earth, and LessonPaths. The paper concluded that the use of open-access resources and digital platforms is essential for science teachers' pedagogical performance. Therefore, Science teachers should embrace the use of open-access resources and digital platforms for effective teaching activities and professional development.

Key Words: Open Access, Open Access Resources, Digital Platforms, Science Teachers, Professional Development.