

ALLEGATO B

Curriculum formative, didattico, scientifico e professionale del candidato

Dichiarazione sostitutiva di certificazioni (Art. 46, D.P.R. 28 dicembre 2000 n. 445) Dichiarazione sostitutiva dell'atto di notorietà (da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità) (Art. 47, D.P.R. 28 dicembre 2000 n. 445)
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Estremi del bando di selezione	Borsa di Ricerca, Bando nr. 1/2023 del 10/01/2023
Informazioni aggiornate al	24/01/2023
Nome e cognome	Ke Zuo
Data di nascita	

Si raccomanda di indicare con precisione tutti gli elementi valutabili ai sensi del bando di selezione (aggiungere o togliere righe secondo necessità).

Esperienza professionale

Periodo	Ente	Principali attività e responsabilità
07/2018-06/2019	College of Chemistry, Fuzhou University, China	Research assistant of Prof. Li

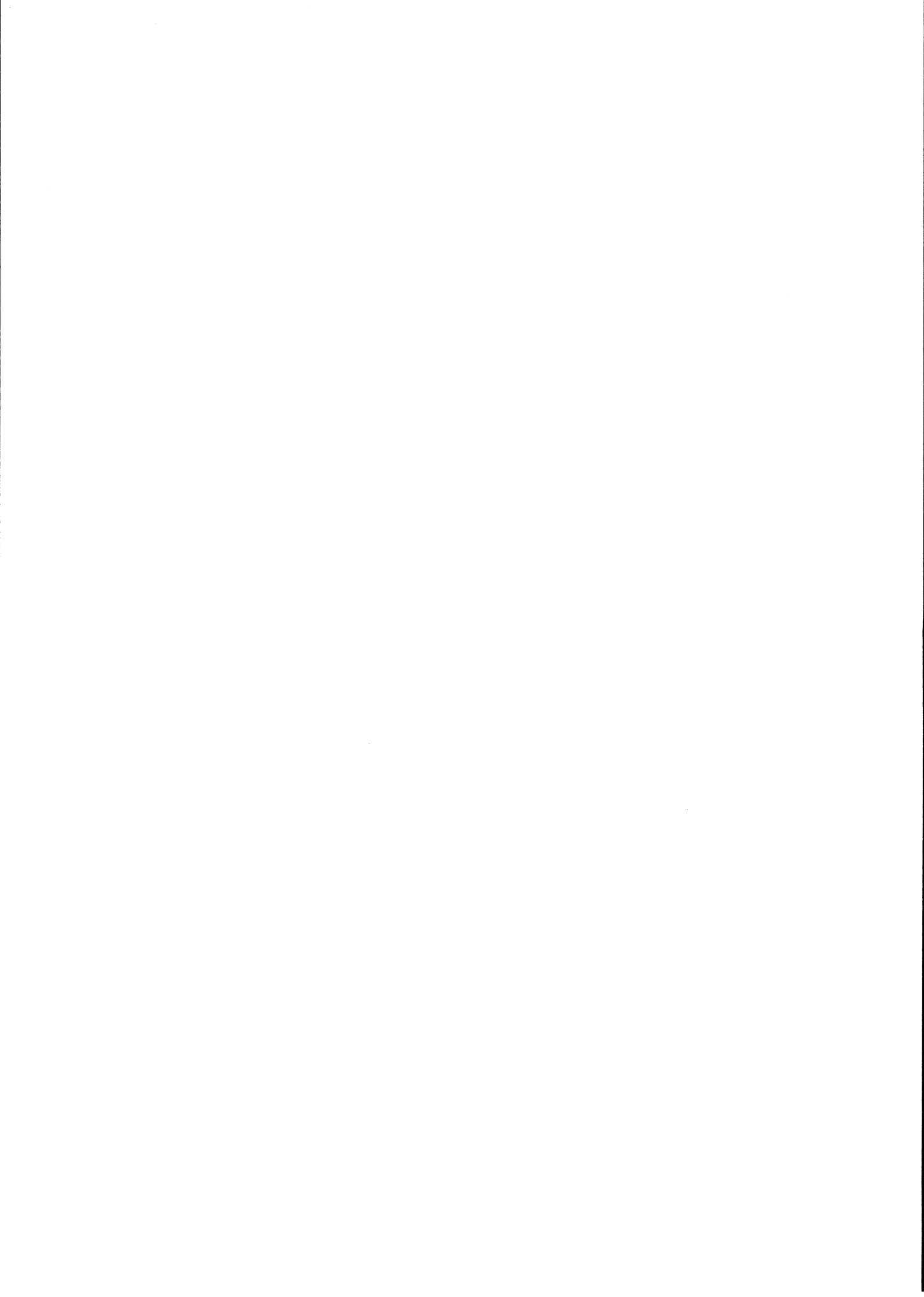
Istruzione, formazione (es. titoli di studio, certificazioni professionali/linguistiche/informatiche)

Data	Titolo/principali tematiche	Ente
06/2015	Bachelor in Pharmaceutical Engineering	College of Bioengineering, Chengdu University, China
07/2018	Master in Medicinal Chemistry	Sichuan Industrial Institute of Antibiotics, Chengdu University, China
Ongoing	PhD Research on <i>Molecular interactions between human NEET proteins and their ligands</i>	The Hebrew University of Jerusalem, Israel RWTH Aachen University, Germany University of Ferrara, Italy

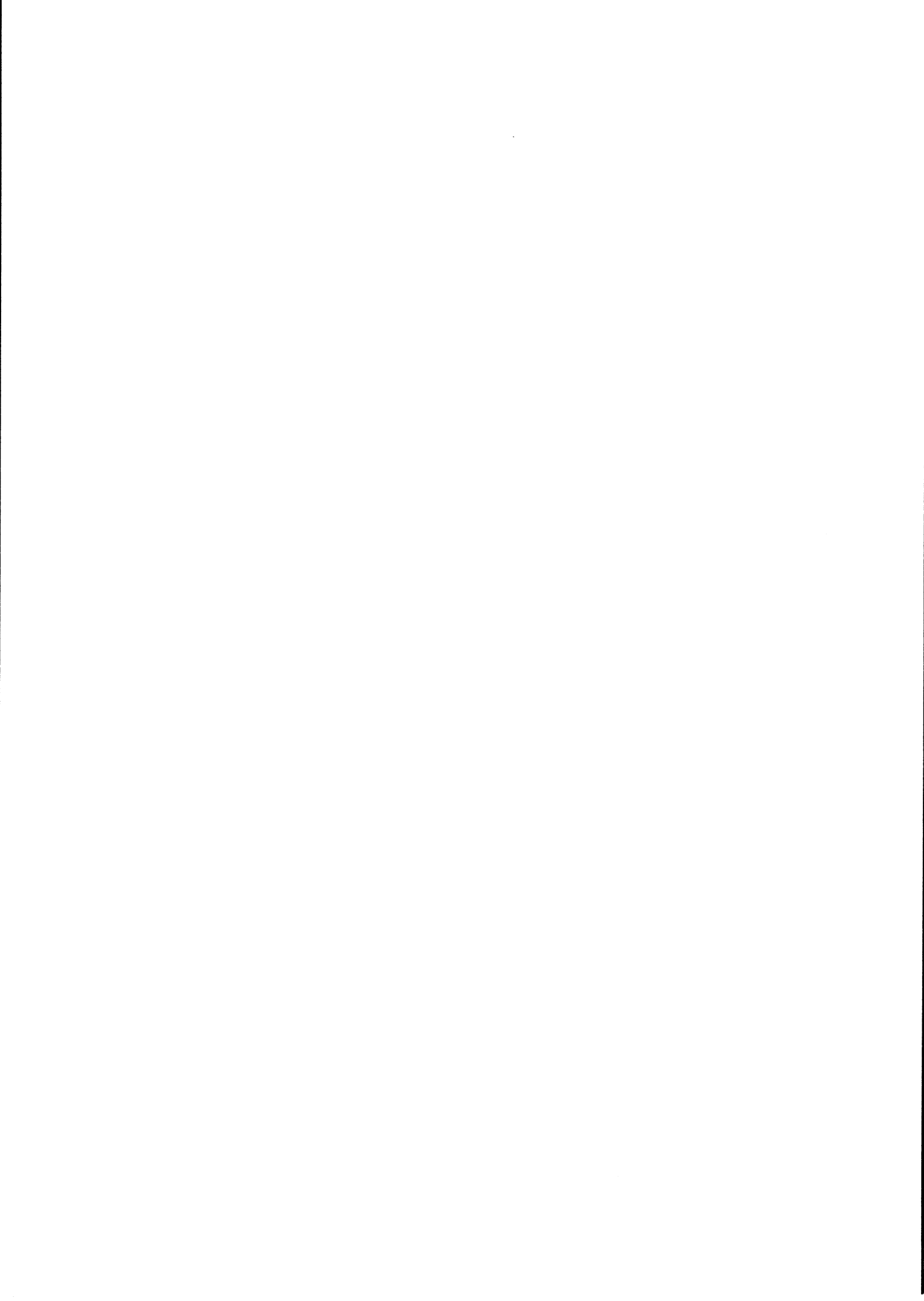
Pubblicazioni/Convegni

Pubblicazioni (# primo autore, autore con uguale contributo)

1. Marjault H-B., Karmi O., **Zuo K.** Michaeli D., Eisenberg-Domovich Y., Rossetti G., de Chasse B., Vonderscher J., Cabantchik I., Carloni P., Mittler R., Livnah O., Meldrum E., Nechushtai R. An anti-diabetic drug targets NEET (CISD) proteins through destabilization of their [2Fe–2S] clusters. *Commun. Biol.* 2022, 5, 437.
2. Hoang L.G., Goßen J., Capelli R., Nguyen T.T., Sun Z., **Zuo K.**, Schulz J.B., Rossetti G., Carloni P. Multiple poses and thermodynamics of ligands targeting protein surfaces: The case of furosemide binding to mitoNEET in aqueous solution. *Front. Cell Dev. Biol.* 2022, 10, 886568.



3. **Zuo K.#**, Marjault H-B., Bren KL., Rossetti G., Nechushtai R., Carloni P. The two redox states of the human NEET proteins' [2Fe–2S] clusters. *JBIC J. Biol. Inorg. Chem.* 2021, 26, 763–774.
4. Marjault H-B.#, **Zuo K.#**, Mittler R., Carloni P., Nechushtai R. Chapter 21 - NEET proteins as novel drug targets for mitochondrial dysfunction. In Ostojic S., *Clinical Bioenergetics*, 2021, 477-488, Amsterdam: Elsevier. #These authors contributed equally to this work.
5. Nechushtai R., Karmi O., **Zuo K.**, Marjault H-B., Darash-Yahana M., Sohn Y-S., King SD., Zandalinas SI., Carloni P., Mittler R. The balancing act of NEET proteins: Iron, ROS, calcium and metabolism. *BBA Mol. Cell Biol.* 2020, 11, 118805.
6. **Zuo K.#**, Qi Y., Yuan C., Jiang L., Xu P., Hu J., Huang M., Li J. Specifically targeting cancer proliferation and metastasis processes: The development of matriptase inhibitors. *Cancer Metast. Rev.* 2019, 38, 507-524.
7. Lin H.#, Zhang D.#, **Zuo K.#**, Yuan C., Huang M., Li J., Lin Z. Two-metal-ion assisted sequence-specific Holliday junction recognition and cleavage by the chloroplast resolvase Mcc1. *Nat. Chem. Biol.* 2019, 15, 1241–1248. #These authors contributed equally to this work.
8. Yan X., Luo Y., Sun X., Zhuo W., Gu J., **Zuo K.**, Gou X., Tang D., Shi H., Liu W., Hu J. Potential strategy used for controlling the phosphorescent properties in tetradentate Pt(II) complex: the effect ofazole ligand. *Appl. Organometal. Chem.* 2019, 33, e5125.
9. Duan H., Liu X., Zhuo W., Meng J., Gu J., Sun X., **Zuo K.**, Luo Q., Luo Y., Tang D., Shi H., Cao S., Hu J. 3D-QSAR and molecular recognition of *Klebsiella pneumoniae* NDM-1 inhibitors. *Mol. Simulat.* 2019, 45, 694-705.
10. Wu Z., Xie T., Luo Y., Zuo W., Gu J., Yan X., Sun X., **Zuo K.**, Liu X., Gan Y., Liang L., He G., Liu W., Gou X., Tang D., Shi H., Hu J. Theoretical insight into the photodeactivation pathway of the tetradentate Pt(II) complex with different inductive substituents. *Appl. Organometal. Chem.* 2019, 33, e4879.
11. Zhao X., Huang Y., Yuan G., **Zuo K.**, Huang Y., Chen J., Li J., Xue J. A novel tumor and mitochondria dual-targeted photosensitizer showing ultra-efficient photodynamic anticancer activities. *Chem. Commun.*, 2019, 55, 866-869.
12. **Zuo K.#**, Luo Y., Sun X., Shen W., Tang D., Hu J. A potential strategy used for controlling the phosphorescence quantum yield of cyclometalated (C[∧]C*) platinum (II) NHC complexes: The theoretical insight. *Org. Electron.* 2018, 57, 367-376.
13. **Zuo K.#**, Luo Y., Sun X., Shen W., Tang D., Hu J. Theoretical insight into the photodeactivation pathway of the tetradentate Pt(II) complex: the π-conjugation effect. *Appl. Organometal. Chem.* 2018, 32, e4220.
14. Sun X., Yan X., Zhuo W., Gu J., **Zuo K.**, Liu W., Liang L., Gan Y., He G., Wan H., Gou X., Shi H., Hu J. PD-L1 nanobody competitively inhibits the formation of the PD-1/PD-L1 complex: comparative molecular dynamics simulations. *Int. J. Mol. Sci.* 2018, 19, 1984.
15. **Zuo K.#**, Liang L., Du W., Sun X., Liu W., Gou X., Wan H., Hu J. 3D-QSAR, molecular docking and molecular dynamics simulation of *Pseudomonas aeruginosa* LpxC inhibitors. *Int. J. Mol. Sci.* 2017, 18, 761.
16. Du W., **Zuo K.**, Sun X., Liu W., Yan X., Liang L., Wan H., Chen F., Hu J. An effective HIV-1 integrase inhibitor screening platform: Rationality validation of drug screening, conformational mobility and molecular recognition analysis for PFV integrase complex with viral DNA. *J. Mol. Graph. Model.* 2017, 78, 96-109.



Altre attività scientifiche

Ulteriori informazioni pertinenti

- National Scholarship for Postgraduate, 2017-2018
- Sichuan Province, Excellent Graduate Award, 2018
- Sichuan Province, Postgraduate Scholarship, 2015-2016 and 2017-2018

Luogo, data

Amburgo (D), 25/01/2023

