

# Dr S. Lin Er Chow

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## List of Publications

Corresponding & Lead      Lead

<ul style="list-style-type: none"><li>High-temperature Superconducting Oxide without Copper at Ambient Pressure <b>First author, Co-corresponding author</b> Authors: <b>S. Lin Er Chow</b>,<sup>✉</sup> Zhaoyang Luo, A. Ariando<sup>✉</sup></li></ul>	<i>under review (just accepted) in</i> <b>Nature</b> Impact Factor (IF) = 50.5
<ul style="list-style-type: none"><li>Unconventional spin symmetric Cooper pairs in a superconducting infinite-layer nickelate <b>First author, Co-corresponding author</b> Authors: <b>S. Lin Er Chow</b>,<sup>✉</sup> King Yau Yip, Mathieu Pierre, Km Rubi, Shengwei Zeng, Zhaoyang Luo, Maxime Leroux, Tobias Heil, Julia Deuschle, Proloy Nandi, Saurav Prakash, Zhaoting Zhang, Zhi Shiuh Lim, Marc Nardone, Abdelaziz Zitouni, Qian He, Stephen J. Pennycook, Peter A. van Aken, Michel Goiran, Neil Harrison, Swee Kuan Goh, Walter Escoffier, A. Ariando<sup>✉</sup></li></ul>	<i>under review in</i> <b>Science</b> IF = 47.73
<ul style="list-style-type: none"><li>Nickel Age of High-Temperature Superconductivity <b>First author, Co-corresponding author</b> <i>*invited contribution   Special Issue: 10 Years of Advanced Materials Interfaces</i> Authors: <b>S. Lin Er Chow</b>,<sup>✉</sup> A. Ariando<sup>✉</sup></li></ul>	<b>Advanced Materials Interfaces</b> 12, 4 (2025) IF = 5.4
<ul style="list-style-type: none"><li>Extensive hydrogen incorporation is not necessary for superconductivity in topotactically reduced nickelates <b>Co-first author(s)</b> Authors: Purnima P. Balakrishnan,<sup>✉</sup> Dan Ferenc Segedin,<sup>*</sup> <b>Lin Er Chow</b>,<sup>*</sup> P. Quarterman, Shin Muramoto, Mythili Surendran, Ranjan K. Patel, Harrison LaBollita, Grace A. Pan, Qi Song, Yang Zhang, Ismail El Baggari, Koushik Jagadish, Yu-Tsun Shao, Berit H. Goodge, Lena F. Kourkoutis, Srimanta Middey, Antia S. Botana, Jayakanth Ravichandran,<sup>✉</sup> A. Ariando,<sup>✉</sup> Julia A. Mundy<sup>✉</sup> &amp; Alexander J. Grutter<sup>✉</sup></li></ul>	<b>Nature Communications</b> 5, 7387 (2024) IF = 14.7
<ul style="list-style-type: none"><li>Observation of perfect diamagnetism and interfacial effect on the electronic structures in infinite layer Nd<sub>0.8</sub>Sr<sub>0.2</sub>NiO<sub>2</sub> superconductors <b>Co-first author(s)</b> Authors: S. W. Zeng,<sup>*</sup> X. M. Yin,<sup>*</sup> C. J. Li,<sup>*</sup> <b>L. E. Chow</b>,<sup>*</sup> C. S. Tang, K. Han, Z. Huang, Y. Cao, D. Y. Wan, Z. T. Zhang, Z. S. Lim, C. Z. Diao, P. Yang, A. T. S. Wee, S. J. Pennycook &amp; A. Ariando<sup>✉</sup></li></ul>	<b>Nature Communications</b> 13, 743 (2022) IF = 14.7
<ul style="list-style-type: none"><li>Superconductivity in infinite-layer nickelate La<sub>1-x</sub>Ca<sub>x</sub>NiO<sub>2</sub> thin films <b>Co-first author(s)</b> Authors: Shengwei Zeng,<sup>✉</sup> Changjian Li,<sup>*</sup> <b>Lin Er Chow</b>,<sup>*</sup> Yu Cao, Zhaoting Zhang, Chi Sin Tang, Xinmao Yin, Zhi Shiuh Lim, Junxiong Hu, Ping Yang &amp; A. Ariando<sup>✉</sup></li></ul>	<b>Science Advances</b> 7, 8 (2022) IF = 14.136
<ul style="list-style-type: none"><li>Charge and Spin Order Dichotomy in NdNiO<sub>2</sub> Driven by the Capping Layer Authors: G. Krieger, L. Martinelli, S. Zeng, <b>L. E. Chow</b>, K. Kummer, R. Arpaia, M. Moretti Sala, N. B. Brookes, A. Ariando, N. Viart, M. Salluzzo,<sup>✉</sup> G. Ghiringhelli,<sup>✉</sup> and D. Preziosi<sup>✉</sup></li></ul>	<b>Physical Review Letters</b> 129, 027002 (2022) IF = 8.1

<ul style="list-style-type: none"> <li>• Origin of a topotactic reduction effect for superconductivity in infinite-layer nickelates            Authors: Shengwei Zeng,<sup>✉</sup> Chi Sin Tang,* Zhaoyang Luo,* <b>Lin Er Chow</b>, Zhi Shiu Lim, Saurav Prakash, Ping Yang, Caozheng Diao, Xiaojiang Yu, Zhenxiang Xing, Rong Ji, Xinmao Yin, Changjian Li, X. Renshaw Wang, Qian He, Mark B. H. Breese, A. Ariando,<sup>✉</sup> and Huajun Liu<sup>✉</sup></li> </ul>	<p><i>Physical Review Letters</i>            133, 066503 (2024)            IF = 8.1</p>
<ul style="list-style-type: none"> <li>• Angular Dependence of Hump-Shape Hall Effects for Distinguishing between Karplus–Luttinger and Geometrical Origins            Authors: Zhi Shiu Lim,<sup>✉</sup> <b>Lin Er Chow</b>, Khoong Hong Khoo, Ganesh Ji Omar, Zhaoyang Luo, Zhaoting Zhang, Hong Yan, Ping Yang, Robert Laskowski,, A. Ariando,<sup>✉</sup></li> </ul>	<p><i>Advanced Electronic Materials</i>            2, 11 (2024)            IF = 5.3</p>
<ul style="list-style-type: none"> <li>• Infinite-layer nickelate superconductors: A current experimental perspective of the crystal and electronic structures  <b>First author</b>  <i>*invited contribution   special collections</i>            Authors: <b>Lin Er Chow</b>, A. Ariando<sup>✉</sup></li> </ul>	<p><i>Frontiers in Physics</i>            10, 1-8 (2022)            IF = 3.1</p>
<ul style="list-style-type: none"> <li>• Pairing symmetry in infinite-layer nickelate superconductors  <b>First author</b>            Authors: <b>S. Lin Er Chow</b>, S. K. Sudheesh, B. Zhan, Z. Y. Luo, S. W. Zeng, P. Nandi, T. Heil, J. Deuschle, S. Prakash, Z. Zhang, X. Du, Z. S. Lim, Peter A. van Aken, T. Xiang, Elbert E. M. Chia,<sup>✉</sup> A. Ariando<sup>✉</sup></li> </ul>	<p>submitted</p>
<ul style="list-style-type: none"> <li>• Dimensionality control and rotational symmetry breaking superconductivity in square-planar layered nickelates  <b>First author</b>            Authors: <b>S. Lin Er Chow</b>, Km Rubi, King Yau Yip, Mathieu Pierre, Maxime Leroux, Xinyou Liu, Zhaoyang Luo, Shengwei Zeng, Changjian Li, Michel Goiran, Neil Harrison, Walter Escoffier, Swee Kuan Goh, A. Ariando<sup>✉</sup></li> </ul>	<p>submitted</p>