



Hiroto Nishihara

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Work experience

April 2020 ~ present: Professor / AIMR, Tohoku University

August 2011 ~ present: Associate Professor / IMRAM, Tohoku University

April 2005 ~ July 2011: Assistant Professor / IMRAM, Tohoku University

Awards received

December 2020	JSPS prize
December 2020	2020 Asian Scientist top 100
June 2019	Gottfried Wargener Prize 2019
December 2018	The Best Research Paper Award (The Carbon Society of Japan)
September 2018	Publons Peer Review Awards 2018
June 2017	Young Researcher Award (Japan Association for Chemical Innovation)
November 2016	Young Researcher Award (The Japan Society on Adsorption)
February 2014	BCSJ Award
July 2008	The Japan Carbon Award for Young Researcher (in Carbon 2008)

Selected Papers (Corresponding author is marked by *)

Total publications: 137, Total times cited: 5,466, H-index: 38

1. Sunahiro, S.; Nomura, K.; Goto, S.; Kanamaru, K.; Tang, R.; Yamamoto, M.; Yoshii, T.; N. Kondo, J.; Zhao, Q.; Ghulam Nabi, A.; Crespo-Otero, R.; Di Tommaso, D.; Kyotani, T.; **Nishihara, H.*** Synthesis of graphene mesosponge via catalytic methane decomposition on magnesium oxide. *Journal of Materials Chemistry A* **2021**, 9, 14296-14308.
2. Gabe, A.; Ouzzine, M.; Taylor, E. E.; Stadie, N. P.; Uchiyama, N.; Kanai, T.; Nishina, Y.; Tanaka, H.; Pan, Z.-Z.; Kyotani, T.; **Nishihara, H.*** High-density monolithic pellets of double-sided graphene fragments based on zeolite-templated carbon. *Journal of Materials Chemistry A* **2021**, 9, 7503-7507.
3. Nomura, K.; **Nishihara, H.***; Yamamoto, M.; Gabe, A.; Ito, M.; Uchimura, M.; Nishina, Y.; Tanaka, H.; Miyahara, M. T.; Kyotani, T. "Force-driven reversible liquid-gas phase transition mediated by elastic nanosponges" *Nature communications* **2019**, 10, 2559.
4. Nomura, K.; **Nishihara, H.***; Kobayashi, N.; Asada, T.; Kyotani, T. "4.4 V supercapacitors based on super-stable mesoporous carbon sheet made of edge-free graphene walls" *Energy & Environmental Science* **2019**, 12, 1542-1549.
5. Pan, Z. Z.; Lv, W.; He, Y. B.*; Zhao, Y.; Zhou, G.; Dong, L.; Niu, S.; Zhang, C.; Lyu, R.; Wang, C.; Shi, H.; Zhang, W.; Kang, F.; **Nishihara, H.***; Yang, Q. H.* "A nacre-like carbon nanotube sheet for high performance Li-polysulfide batteries with high sulfur loading" *Advanced Science* **2018**, 5, 1800384.