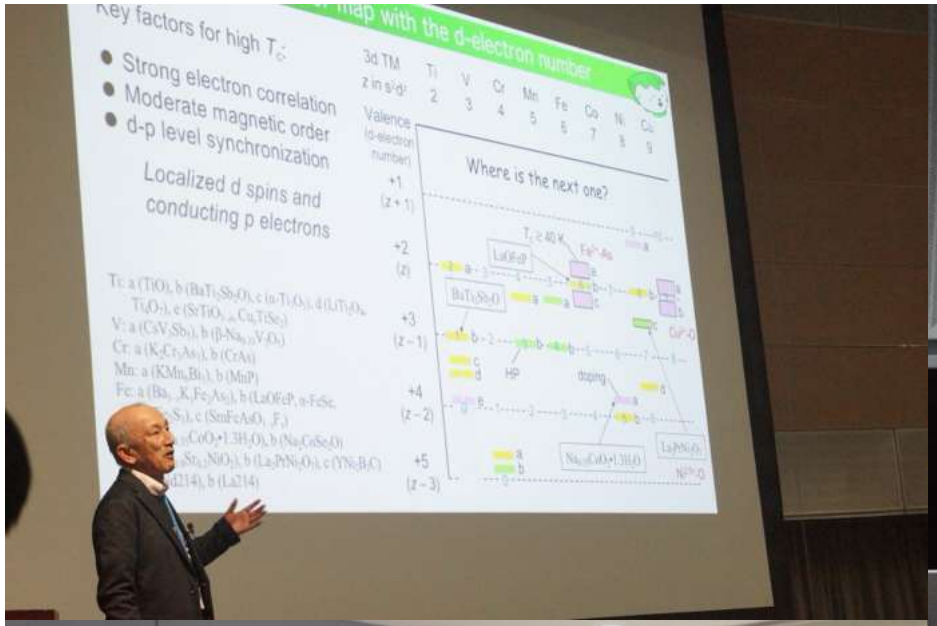
Key factors for high $T_c$:
Strong electron correlation
Moderate magnetic order
d-p level synchronization
Localized d spins and conducting p electrons
map with the d-electron number
Where is the next one?
3d TM
Ti
V
Cr
Mn
Fe
Co
Ni
Cu
Valence (d-electron number)
+1 (z + 1)
+2 (z)
+3 (z − 1)
+4 (z − 2)
+5 (z − 3)
doping
HP


P87, Ryohei Matsumoto (Hiroshim
P158, Yuvraj Vaishnavf (KAUST)
P166, Hanna Marita Wenzel (Phili
P181, Yang Zhang (Kyoto Univers
Congratulat
Thanks to all the Po


固体化学
2nd Speaker


Inorganic Chemistry Outstanding Poster Awards
P25, Artem Gabov (Kyoto University)
P69, Taisei Kubo (Nagoya University)
P71, Achintya Lakshan (Hokkaido University)
P95, Ryusei Morimoto (Kyoto University)
P129, Lavinia Saltarelli (Aalto University)
ACS Publications Outstanding Poster Awards
P18, Hajar Echate (Nantes University)
P36, Helies Hyrondelle (Kyoto University)
P66, Chihaya Koyama (The University of Tokyo)
P96, Peter C. Mueller (RWTH Aachen University)
P150, Naoto Takada (Hokkaido University)
Chemistry Today Outstanding Poster Awards
P10, Yu Cao (Utrecht University)
P39, Keitaro Imai (Osaka Metropolitan University)
P65, Shizuka Kosugi (Osaka University)

# Solid State Chemistry Conference


ISSSC 2025
The 2nd International Symposium on Solid State Chemistry
Shimane
1st-5th
December


ISSSC 2025
The 2nd International Symposium on Solid State Chemistry
Kyoto, 2018-2019


ISSSC 2025
The 2nd International Symposium on Solid State Chemistry
Shimane
1st-5th
December
Simulation
ISSSC 2025 12. 1-5 @ Shimane
Computationally guided high-pressure synthesis of metastable transition-metal oxides
Shintaro Ishiwata
Graduate School of Engineering Science, the University of Osaka


ISSSC 2025
The 2nd International Symposium on Solid State Chemistry
Shimane
1st-5th
December
Two-dimensional materials created by exfoliating ultrathin epitaxial films
Daisuke Kan
Graduate School of Engineering, The University of Osaka
dkan@chem.eng.osaka-u.ac.jp