Riki Kataoka

List of Publications by Year
in descending order

35 papers	464 citations	759233 12 h-index	752698 20 g-index
35 all docs	35 docs citations	35 times ranked	679 citing authors

#	Article	IF	Citations
1	Sodium insertion and de-insertion mechanism of spinel-type sodium titanium oxide studied by in situ XRD. Journal of Alloys and Compounds, 2022, 890, 161763.	5.5	2
2	The origin of the highly crystallized face-centered cubic YH<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e294" altimg="si13.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>Âhigh-pressure phase when quenched to ambient condition. Materials Today Communications, 2022, 31, 103265.	1.9	1
3	Structural stability of Na-inserted spinel-type sodium titanium oxide. Journal of Alloys and Compounds, 2021, 853, 157211.	5.5	9
4	Zirconium hydride-stabilized yttrium hydride (ZSY): Stabilization of a face-centered cubic YH3 phase by Zr substitution. Journal of Alloys and Compounds, 2021, 851, 156071.	5.5	1
5	Face-centered-cubic yttrium trihydride high-pressure phase stabilized at ambient pressures by mechanical milling. Materialia, 2021, 15, 100956.	2.7	3
6	Synthesis of cubic silver titanium oxide with a spinel-based structure. Journal of Solid State Chemistry, 2021, 303, 122514.	2.9	5
7	Stability of Zirconium-Substituted Face-Centered Cubic Yttrium Hydride. Inorganic Chemistry, 2021, 60, 17715-17721.	4.0	0
8	Realizing the Single-Phase Spinel-Type Sodium Titanium Oxide with the Li₄Ti₅O₁₂-like Structure for Building Stable Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 9322-9331.	8.0	18
9	Structure and Electrochemical Properties of Î±-NaFeO2 Obtained under Various Hydrothermal Conditions. Journal of the Electrochemical Society, 2019, 166, A2209-A2214.	2.9	9
10	Facile Synthesis of LiH-Stabilized Face-Centered-Cubic YH₃ High-Pressure Phase by Ball Milling Process. Inorganic Chemistry, 2019, 58, 13102-13107.	4.0	5
11	Improving the oxygen redox stability of NaCl-type cation disordered Li₂MnO₃ in a composite structure of Li₂MnO₃ and spinel-type LiMn₂O₄. Journal of Materials Chemistry A, 2019, 7, 5381-5390.	10.3	33
12	Spinel-Type Sodium Titanium Oxide: A Promising Sodium-Insertion Material of Sodium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 4345-4353.	5.1	22
13	Stabilization of Face-Centered Cubic High-Pressure Phase of REH₃ (RE = Y, Gd, Dy) at Ambient Pressure by Alkali or Alkaline-Earth Substitution. Inorganic Chemistry, 2018, 57, 4686-4692.	4.0	12
14	Electrochemical Property of Li-Mn Cation Disordered Li-Rich Li₂MnO₃with NaCl Type Structure. Journal of the Electrochemical Society, 2018, 165, A291-A296.	2.9	18
15	Electrochemical In Situ Synthesis: A New Synthesis Route for Redox Active Manganese Oxides for Rechargeable Sodium Ion Battery through Initial Charge Process. Journal of the Electrochemical Society, 2017, 164, A226-A230.	2.9	9
16	Silicon micropowder negative electrode endures more than 1000 cycles when a surface-roughened clad current collector is used. Journal of Power Sources, 2017, 346, 128-133.	7.8	9
17	Study of the interface between Na-rich and Li-rich phases in a Na-inserted spinel Li₄Ti₅O₁₂ crystal for an electrode of a sodium-ion battery. Physical Chemistry Chemical Physics, 2016, 18, 19888-19893.	2.8	12
18	Spinel manganese oxide: A high capacity positive electrode material for the sodium ion battery. Electrochimica Acta, 2016, 212, 458-464.	5.2	17

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19	High-strength clad current collector for silicon-based negative electrode in lithium ion battery. Journal of Power Sources, 2016, 301, 355-361.	7.8	24
20	Design of a Sodium-ion Cell with a Carbon-free Li₄Ti₅O₁₂ Negative Electrode. Electrochemistry, 2015, 83, 989-992.	1.4	11
21	High Capacity Positive Electrode Material for Room Temperature Na Ion Battery: Na_{<i>x</i>}Mn_{2/3}Co_{1/6}Ni_{1/6}O₂. Journal of the Electrochemical Society, 2015, 162, A553-A558.	2.9	30
22	Influence of the preparation methods on the electrochemical properties and structural changes of alpha-sodium iron oxide as a positive electrode material for rechargeable sodium batteries. Electrochimica Acta, 2015, 182, 871-877.	5.2	14
23	Development of High Capacity Cathode Material for Sodium Ion Batteries Na_{0.95}Li_{0.15}(Ni_{0.15}Mn_{0.55}Co_{0.1})O₂. Journal of the Electrochemical Society, 2013, 160, A933-A939.	2.9	58
24	Development of Li-Ion Rechargeable Battery Using SnC₂O₄-Coated Si Anode Material and Its Safety Evaluation. Journal of the Electrochemical Society, 2013, 160, A1684-A1689.	2.9	10
25	High Pressure Synthesis of Novel Li-TM Hydrides (TM=Nb, Ta). Energy Procedia, 2012, 29, 276-282.	1.8	9
26	Novel Hydrides in Li-TM Systems Synthesized by High Pressure Method (TM=Ti, Zr, Hf). Materials Transactions, 2011, 52, 49-53.	1.2	4
27	High Pressure Synthesis of Hydride in Li-Y System. Materials Transactions, 2009, 50, 2069-2072.	1.2	9
28	High Pressure Synthesis of Novel Mg(Ni_{1−<I>x</I>}Cu<I>_x</I>)₂ Hydrides (<I>x</I>=0–0.2). Materials Transactions, 2009, 50, 1179-1182.	1.2	3
29	High-pressure synthesis of novel compounds in an Mgâ€“Ni system. Renewable Energy, 2008, 33, 221-225.	8.9	49
30	High-Pressure Synthesis of MgNi Intermetallic Compound and Its Thermal Stability. Materials Transactions, 2008, 49, 457-460.	1.2	7
31	Novel hydrides in Mgâ€“TM systems synthesized by high pressure (TM=Zr, Nb, Hf and Ta). Journal of Alloys and Compounds, 2007, 446-447, 6-10.	5.5	14
32	High-pressure synthesis of novel hydride in Mgâ€“Niâ€“H and Mgâ€“Niâ€“Cuâ€“H systems. Journal of Alloys and Compounds, 2007, 446-447, 142-146.	5.5	9
33	High-Pressure Synthesis of Novel Hydride in Ca-TM Systems. Advanced Materials Research, 2007, 26-28, 885-888.	0.3	2
34	High-Pressure Synthesis of Novel Hydride in Mg-Ni (-H) System. Materials Transactions, 2006, 47, 1957-1960.	1.2	13
35	High-Pressure Synthesis of Novel Hydrides in Mg–TM Systems (TM = Zr, Nb and Mo). Materials Transactions, 2005, 46, 1798-1801.	1.2	13