README: list of the archives found as supplementary information.

1.- Root directory:
1a.- This README file
1b.- Ordered_Nanoporous_Metals_Supp_Information.docx: The file has 14 sections and two additional sections for describing metadynamics codes.
List of sections:
Section S1. EAM Potentials
Section S2. Lattice energy and cell parameter time dependence for Pt-CRI-ST3
Section S3. NVT stability of Ni-CRI-ST3 ONM
Section S4. Metadynamics simulations
Code S1: Plumed code used in the MetaD simulation
Code S2: Reweighting and calculating the histograms
Section S5.- Calculation of the thermal expansion coefficient, □, and the specific heat, Cp.
Section S6.- Calculation of mean-squared displacements of methanol and water Ag-CRI ST3 ONM
Section S7.- List of stable ONMs structures designed in this work
Section S8.- Views of stable ONMs structures
Section S9.- Energy per atom vs density for Ni and Pt ONMs with alternative potentials
Section S10.- Porosities of stable ONMs
Section S11.- Empirical formula for calculating the critical PLD of stable ONMs
Section S12.- Porosities and stabilities of template MOFs and ST solids
Section S13.- Distribution of adsorption enthalpies and transport of benzene and xylene isomers
Section S14.- References

2.- ONMs_Crystal_Structures directory
Cif files of our predicted ONMs:
2.1. ONM_from_MOF_IRMOF16.cif
2.2. ONM_from_MOF_NDC-MIL101.cif
2.3. ONM_from_MOF_PCN6P.cif
2.4. ONM_from_ST_CRI-ST3.cif
2.5. ONM_from_ST_CRI-ST4.cif
2.6. ONM_from_ST_SOD-ST3.cif
2.7. ONM_from_ST_SOD-ST4.cif

3.- ONMs_EAM_Potential_files directory
EAM files:
3.1. EAM_Ag.Sheng.lammps.eam
3.2. EAM_Au.Sheng.lammps.eam
3.3. EAM_Ni.OrtizRoldan.eam
3.4. EAM_Ni.Sheng.lammps.eam
3.5. EAM_Pd.Sheng.lammps.eam
3.6. EAM_Pt.Johnson.lammps.eam
3.7. EAM_Pt.Sheng.lammps.eam

4.- Xylenes_Ag_CRIst3_Diffusion directory
RASPA files to run MD simulations of ortho, meta and paraxylene in Ag_CRIstobalite ONM:
4.1. 1a_ag_CRIst3_orthoxylene_jalkanen
4.2. 1b_ag_CRIst3_metaxylene_jalkanen
4.3. 1c_ag_CRIst3_paraxylene_jalkanen