

Hybrid porous solids : oxidation degree of metals and types of characterization with references.

(Phosphonates and carboxyphosphonates are in italics, carboxylates are normal and flexible solids are in red)

	M ⁺			M ²⁺										M ³⁺				M ⁴⁺			
	K	Mg	Ca	Fe	Co	Ni	Cu	Zn	Cd	Pb	Al	Ga	In	Sc	V	Cr	Fe	Ln	Ti	V	Zr
Synthesis & structure	523, 523,	475, 475,	445, 460, 445, 460,	243, 299, 311, 318, 322 335, 346, 363,	216, 233, 279, 283, 285, 287, 301, 311, 344, 368, 418, 412, 451, 534, 536,	247, 338, 343, 349, 365, 414, 451, 493, 523, 536,	263, 263,	319, 324, 395, 395,	404, 456, 404, 456,	236, 306, 353,	254, 367, 373, 399, 424, 426, 431, 441, 450, 459, 459, 474, 479, 487, 492, 495, 499, 504, 505, 535, 550,	388, 400, 472, 477, 480, 495, 529, 539,	476, 495, 549,	402, 403, 478,	208, 209, 214, 218, 226, 254, 264, 278, 308, 325, 358, 362, 370,	316, 342, 385, 387, 396, 409, 415, 418, 425, 443, 444, 447, 461, 467, 469, 473, 482, 496, 498, 511, 416, 423, 462, 468, 519, 522, 527, 547, 488, 501, 551, 553, 554,	276, 339, 380, 381, 385, 411, 425, 443, 444, 447, 461, 467, 469, 473, 482, 496, 498, 511, 416, 423, 462, 468, 519, 522, 527, 547, 488, 501, 551, 553, 554,	215, 217, 234, 239, 248, 251, 291, 323, 331, 337, 361, 371, 376, 394, 406, 407, 416, 423, 437, 442, 455, 503, 514, 541,	209, 247, 298, 424, 486, 494,	261, 275, 280, 286, 542,	329, 510,
NMR								395			373, 450, 463, 479, 487, 492, 499, 504, 505, 524, 535, 538, 550,	400, 472, 539,								530	
Mechanisms											373,	472,					484, 531, 532, 555,			483,	
Adsorption N2, H2, H2O											367, 471, 505,										
Adsorption Greenhouse gases											408, 459, 491, 505,			478,			432, 464, 446, 448, 448, 459, 464, 468, 470, 481, 491, 500, 502, 520, 521, 542, 546,			459, 491, 509, 516, 530, 548, 552,	
Simulation											333, 441, 450, 459, 463, 538,						386, 389,	406,		459, 483, 516, 537, 542, 557,	
Magnetism				335, 343, 365,	233, 344,	343, 365,										316,	276, 380, 381, 553, 444, 482, 498,			275,	
Conductivity	523																				
Optics																			494,		
Catalysis																					
Inertion											513, 533, 463,					490,	447,				
Medicine																507, 517, 427, 463, 508, 544,	543, 427, 528,				
Infra-Red											558	477				420, 439, 432, 462, 464, 542,	547,			542, 552,	
Dynamics																465, 466, 500, 518,	466,			466, 509, 518	

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