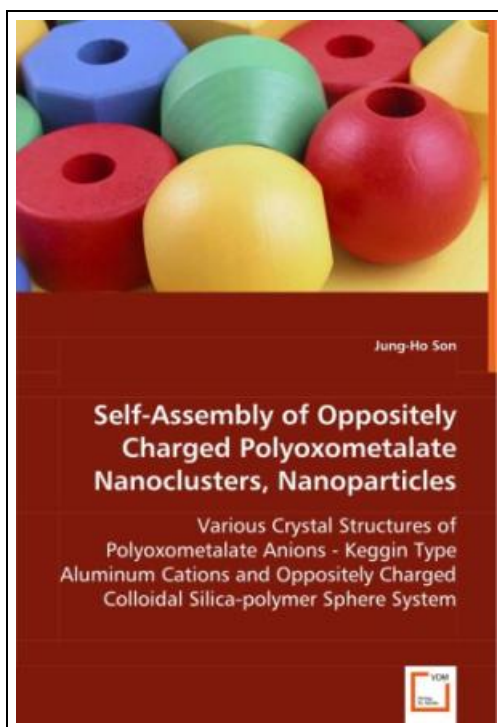


## Self-Assembly of Oppositely Charged Polyoxometalate Nanoclusters, Nanoparticles



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### **Reviews**

*This is an amazing publication i actually have at any time go through. It is actually rally interesting throgh reading through period. Its been developed in an exceptionally straightforward way which is merely following i finished reading through this publication where actually altered me, modify the way in my opinion.*

**(Noah Padberg)**

## SELF-ASSEMBLY OF OPPOSITELY CHARGED POLYOXOMETALATE NANOCCLUSERS, NANOPARTICLES



Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Various Crystal Structures of Polyoxometalate Anions - Keggin Type Aluminum Cations and Oppositely Charged Colloidal Silica-polymer Sphere System | This book covers a comprehensive study on the new-concept inorganic nanocomposite materials. The idea is to get nanocomposite from ionic interaction between polyoxometalate anions (Mo7, AlMo6, W12, V2W4) and aluminum cations (Al13, Al30). Their self assembly in aqueous solution produced solid nanocomposite material in the form of single crystals or gels. Single crystals of Al13-2AlMo6, Al13-W12, Al13-2V2W4, W2Al28-2W12 has been fully characterized. The structural determinations show that hydrogen bonding and Coulombic force dominate the intercluster interactions. Their polyhedral shapes results in interesting molecular packing scheme. And packing of nanometer size clusters leads to the formation of large pores, which could be utilized to sorptive materials or catalysts. Al13-2AlMo6 crystals demonstrate reversible and selective adsorption of water in their pores. Also included are 1) self-assembly of oppositely charged silica or polymer spheres with different sizes, 2) nickel fine particle synthesis for MLCC application, 3) surface modification or coating of inverse opal carbon materials with polyoxometalate or metal. | Format: Paperback | Language/Sprache: english | 155 gr | 220x150x6 mm | 108 pp.



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