DESCRIPTION

*Applied Clay Science* aims to be an international journal attracting high quality scientific papers on clays and clay minerals, including research papers, reviews, and technical notes. The journal covers typical subjects of Fundamental and Applied Clay Science such as:

- Synthesis and purification
- Structural, crystallographic and mineralogical properties of clays and clay minerals
- Thermal properties of clays and clay minerals
- Physico-chemical properties including i) surface and interface properties; ii) thermodynamic properties; iii) mechanical properties
- Interaction with water, with polar and apolar molecules
- Colloidal properties and rheology
- Adsorption, Intercalation, Ionic exchange
- Genesis and deposits of clay minerals
- Geology and geochemistry of clays
- Modification of clays and clay minerals properties by thermal and physical treatments
- Modification by chemical treatments with organic and inorganic molecules (organoclays, pillared clays)
- Modification by biological microorganisms
- Structural and textural modifications of clay minerals (metakaolin etc)
- Synthesis of other materials (such as zeolites, geopolymers) starting from clay minerals. However, the main part of the manuscript should be focused on clay minerals
- Novel materials based on clay minerals such as clay polymer (bio)nanocomposites
- Clays and clay minerals in formulations of pesticides and drugs and in animal food production
- Environmental applications such as Radioactive Waste Disposal, and Water Engineering, Depollution of heavy metals, Filtration
- Fillers and coating (paint, rubber, plastics)
- Drilling fluids and drilling muds in petroleum industry
- Foundry moulding
- Applications in soil chemistry and in agriculture
- Applications of clay mineral in hydrocarbon and geothermal prospection
- Geotechnical applications of clays and clay minerals
- Applications in ceramics, construction, iron ore and steel industry, paper, catalysis, cosmetics
- Related lamellar materials such as Layered Double Hydroxides (LDH), layered oxides, layered silicates, Cement Silicate Hydrates (CSH)
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Clay scientists, Materials scientists, Mineralogists, Crystallographers, Chemists, Physicists, Geologists, Soil scientists, Geotechnical and petroleum engineers, Environmental scientists, and all researchers, engineers, industrials and students using clays and clay minerals

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- When naming the mineral, all the names of natural clay minerals are with low case but Laponite is with capitalized initial because it is the name of a synthetic clay mineral
- Phyllosilicates cannot be used instead of clay minerals: all the phyllosilicates are not clay minerals.
Clay minerals are a group of phyllosilicates.
- Distinguish clearly between clay and clay mineral
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- Clay should be specified such as bentonite, kaolin;
- Clay mineral should be specified such as montmorillonite, kaolinite
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- Natural clay should be raw clay
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- Anionic clay = layered double hydroxide (LDH)
- Nanosized zero valent iron and similar expressions should be iron nanoparticles
- Oxides also containing hydroxyl groups (oxyhydroxides) should be (hydr)oxides
- Use adsorption, adsorbed, adsorbent instead of sorption, sorbed, sorbent
- Use reflection instead of peak (or diffraction peak) when describing XRD diagrams
- d001 reflection is incorrect: use 001 reflection (basal reflection) or d001-value!
- d-spacing must be d-value
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- Gallery should be avoided, gallery (height) or spacing should be interlayer space
- Ionic (cationic, anionic) exchange should be ion (cation, anion) exchange
- Weight, molecular weight should be mass, molar mass
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- Percentage must indicate what type - volume, mass, etc.
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