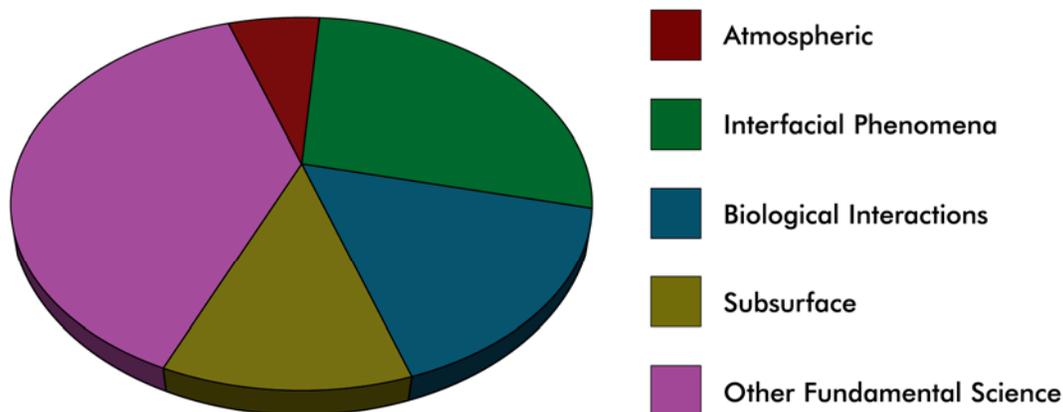


EMSL Publications Sorted by Science Areas

'05



During FY2005 there were 358 Publications reported by EMSL users. These papers were sorted by research area as listed below. Approximately 60% of these publications fit into the EMSL science theme areas. Papers that do not readily fit into the science theme areas are listed as Other Fundamental Science.

In addition to the topical sorting, papers involving significant theory, modeling or computation and those with a significant oxide focus were identified. Topical categories in each area and number of papers (some fit into more than one subcategory) are listed below.

Science Themes Areas	
Atmospheric Aerosol Chemistry	23
Aerosols/particles	12
Solvation	11
Interfacial Phenomena	103
Catalysis + Photocatalysis	43
Fuel Cell	7
Hydrogen Storage	3
Nuclear/Radiation/Damage	28
Carbon Nanotubes + C60	18
Sensors/Detectors	11
Biological Interactions and Interfaces	57
Biology + Health	17
Proteomics and Mass Spectrometry	27
Magnetic Resonance	9
Bio-Interfaces	4
Biogeochemistry and Subsurface	42
Geochemistry	21
Hydrology & Transport	7
Uranium	14
Biogeochemistry (non-Uranium)	3

Other Fundamental Science	
Chemical Physics-P Chemistry	45
Surface and Interface Chemistry	13
Materials (not in other areas)	16
Analysis Methods/Tech. Development	21
Gold, Gold Clusters and Particles	13
Other Clusters	7
Spintronics & Magnetism	10
Non-Gold and Non-Spin Nanoscience	26

Cross Cutting Areas	
High Visibility Fundamental Science	10
Theory, Modeling and Computation	87
TiO ₂ + STO	26
Other Oxide or Mineral	32