



# *MatDL: Facilitating Connections between Materials Research & Education*

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## NSDL MatDL Pathway Goals:

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- Provide stewardship of significant materials research output & education resources
- Facilitate connections between materials research & education
- Support broad dissemination of materials research & education
- Contribute to multiplying impact of NSF initiatives



# Materials Digital Library Pathway

## NSF MS Initiatives

- Nanoscale Interdisciplinary Research Teams
- Materials Research Science & Engineering Centers
- International Materials Institutes

## Teaching Resource Development

- MS Teaching Archive

## MatDL Repository (Fedora-based)

**Goal: Facilitate interactions between research & education**

**Audience: Undergraduate and above**

**Site available: <http://matdl.org>**

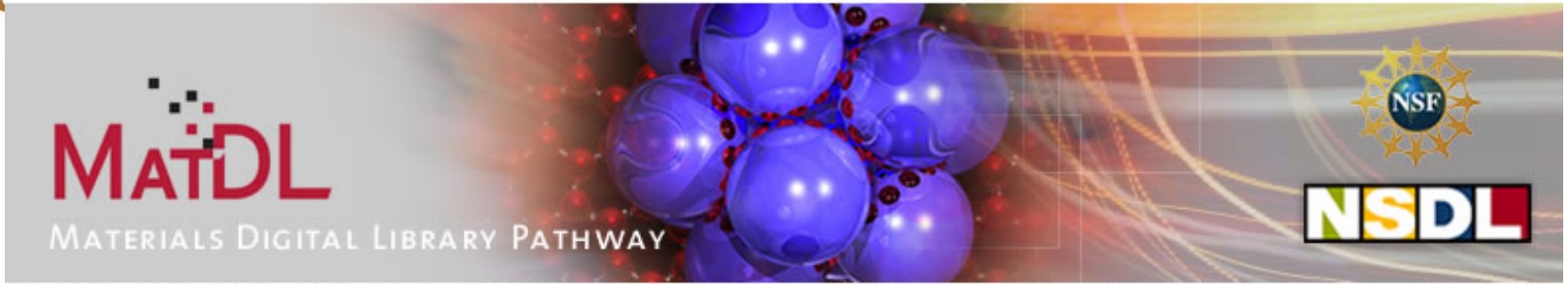
## Supporting...

### Virtual Labs

- Intro to Solid State Chemistry

### Collaborative Code Development

- NIST FiPy
- UM



## MatDL.org offering:

- Tools, like the **MatDL Repository & Soft Matter Wiki**, to describe, manage, exchange, archive, and disseminate data from national & international gov't funded materials teams & centers
- **MatForge** for open access development of modeling and simulation codes
- **Teaching Archive** for collaborative development of core undergrad MS teaching materials
- Services and content for virtual labs in undergrad intro science courses