PHOTOCHEMCAD 2.1

File Modules Curves View About Help

Database List and Structure Display

Spectra Display

Open master
molecule database

Open master
solar spectra database

Click here to see pedagogy,
bibliography, and help

Open database
manually

Naph
Coun

Open individual
spectrum manually

By default, the master molecular database is loaded.

Data

Rhodamine B
Fluorescein (in ethanol)
Indotricarbocyanine (C7)dye
Sulforhodamine 101
Coumarin 6
Oxazine 1
Oxacarbocyanine (C3)dye
Indocarbocyanine (C3)dye
Indodicarbocyanine (C5)dye
Coumarin 30
4-(dicyanomethylene)-2-methyl-6-(p-dimethylami
2,5-Diphenyloxazole, (PPO)

Alphabetical   Classes

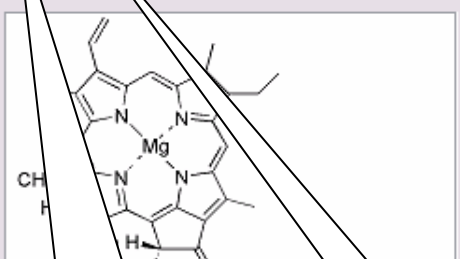Reset   Save List

Total number   164

For Help, press F1

PHOTOCHEMCAD 2.1

File   Modules   Curves   View   About   Help

Database List and Structure Display

Close selected spectrum

Close all spectra

Spectra Display

Absorption

1.43
1.28
1.14
1.00
0.86
0.71
0.57
0.43
0.29
0.14
0.00

210   269

564   623   682   741   800

Fluorescence (10⁷)

4.29
3.86
3.43
3.00
2.57
2.14
1.71
1.29
0.86
0.43
0.00

Press "delete" key to close selected spectrum

Last spectrum courtesy of: Junzhong Li

Bis(5-mesityldipyrrinato)zinc
Bis(5-phenyldipyrrinato)zinc
Boron subphtalocyanine chloride
Chlorin e6 (in diethyl ether)
Chlorin e6 (in ethanol)
Chlorophyll a (in diethyl ether)
Chlorophyll a (in methanol)
Chlorophyll b
cis-Stilbene
Coumarin 1
Coumarin 30
Coumarin 314
Coumarin 343
Coumarin 6
Cresyl violet perchlorate
Cryptocyanine
Crystal violet (in glycerol)
Crystal violet, (in water)
Cytosine
Dansyl glycine (in dioxane)

Absorption
Emission
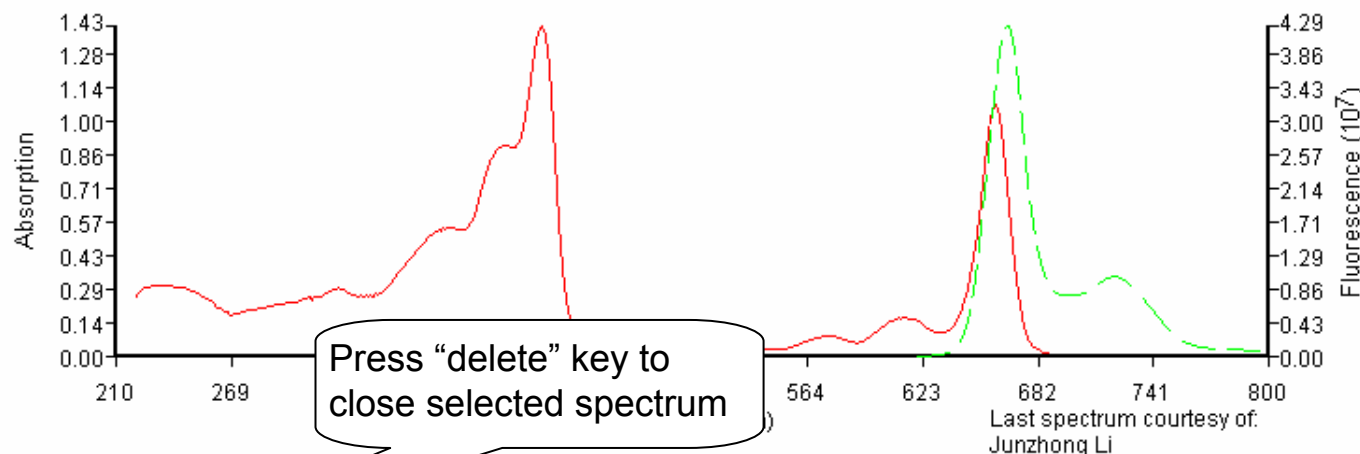Light Sources
List Data

Alphabetical   Classes

Reset   Save List

Total number   164

Data File

C:¥Program Files¥PhotochemCAD¥Molecule Database¥chlorophyll-a(ether).abs.txt
C:¥Program Files¥PhotochemCAD¥Molecule Database¥chlorophyll-a(ether).ems.txt
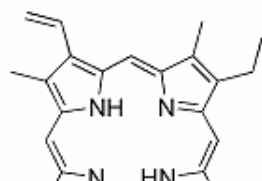
Click on a molecule name to view the absorption spectrum, emission spectrum, or experimental data.

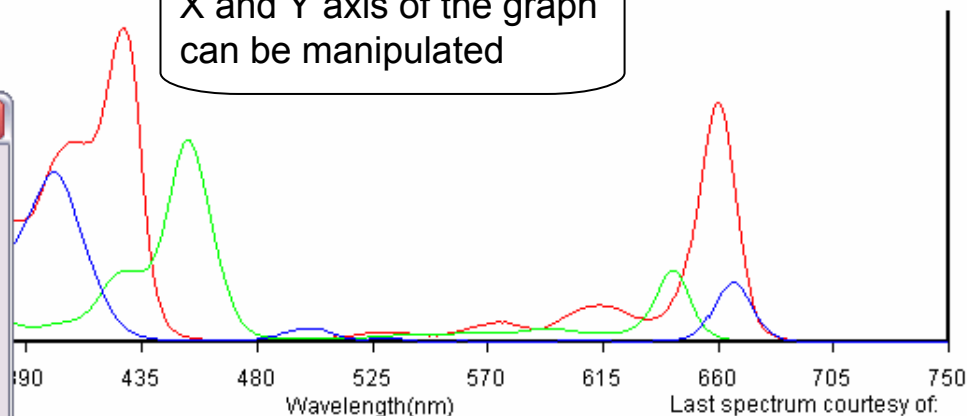Database can be sorted by alphabetical order or class of molecules

For Help, press F1

PHOTOCHEMCAD 2.1

File   Modules   Curves   View   About   Help

Database List and Structure Display

Spectra Display

1.50
1.35
1.20

X and Y axis of the graph can be manipulated

Graph Settings

Title:

Line thickness (if value < 2 the emission line is dashed): 1

OK

Cancel

Scale selection
- Low 300
- High 750
- ◉ Wavelength (nm)
- ○ Wavenumber (cm⁻¹)
- ○ Frequency (Hz)
- ○ Energy (eV)
- ○ Energy (kcal)
- ○ Energy (kK)
- ○ Energy (kJ)
- ☑ X Axis values
  Partitions 10

Intensity control
- Low 0
- High 1.5

Abs
- ◉ Absorption
- ○ Epsilon
- ○ Log Epsilon

Ems
- ○ Fluorescence
- ○ Intensity

Light source
- ○ Irradiance

☑ Y Axis values
  Partitions 10

Bis(5-m
Bis(5-ph
Boron s
Chlorin
Chlorin
Chlorop
Chlorop
Chlorop
cis-Stilb
Coumar
Coumar
Coumar
Coumar
Coumar
Cresyl
Cryptoc
Crystal
Crystal
Cytosin
Dansyl

Alpha
R

Total number 164

Wavelength(nm)
390   435   480   525   570   615   660   705   750

Last spectrum courtesy of:
Masahiko Taniguchi

...emCAD¥Molecule Database¥chlorophyll-a(ether).abs.txt
...emCAD¥Molecule Database¥chlorophyll-b.abs.txt
...emCAD¥Molecule Database¥Chlorin e6 (Et2O).abs.txt

Hold down "shift" key while clicking the file names to select multiple spectra.

For Help, press F1