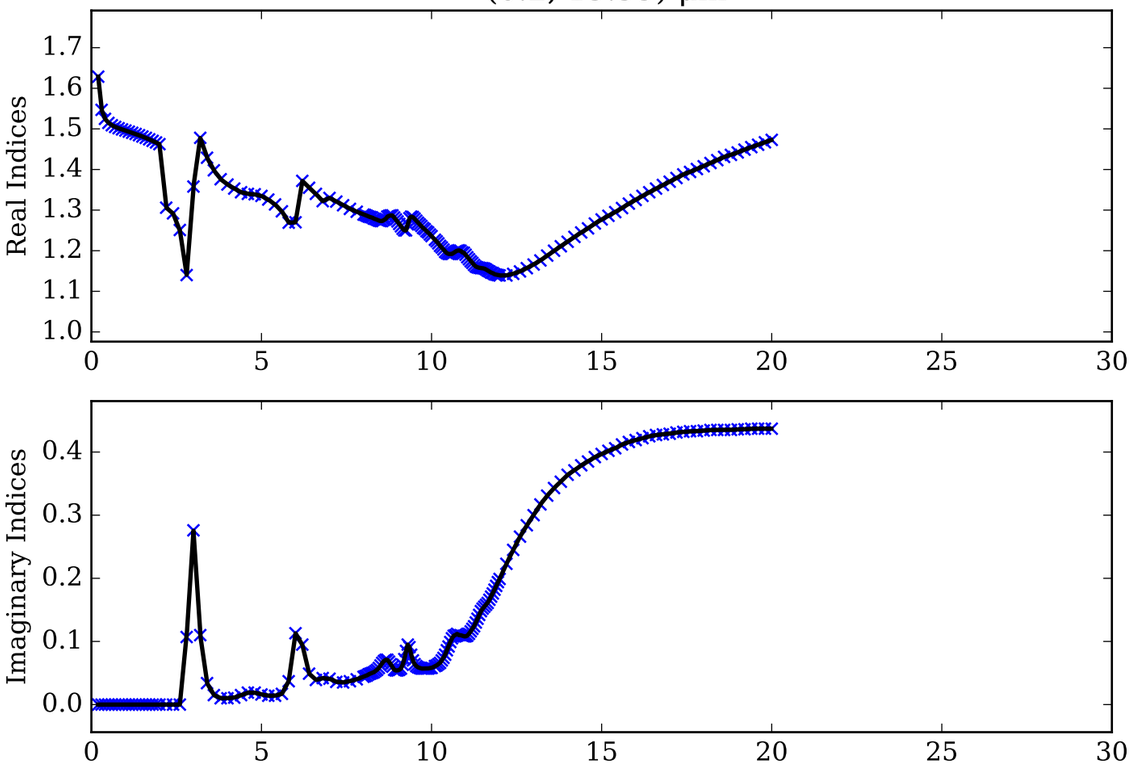
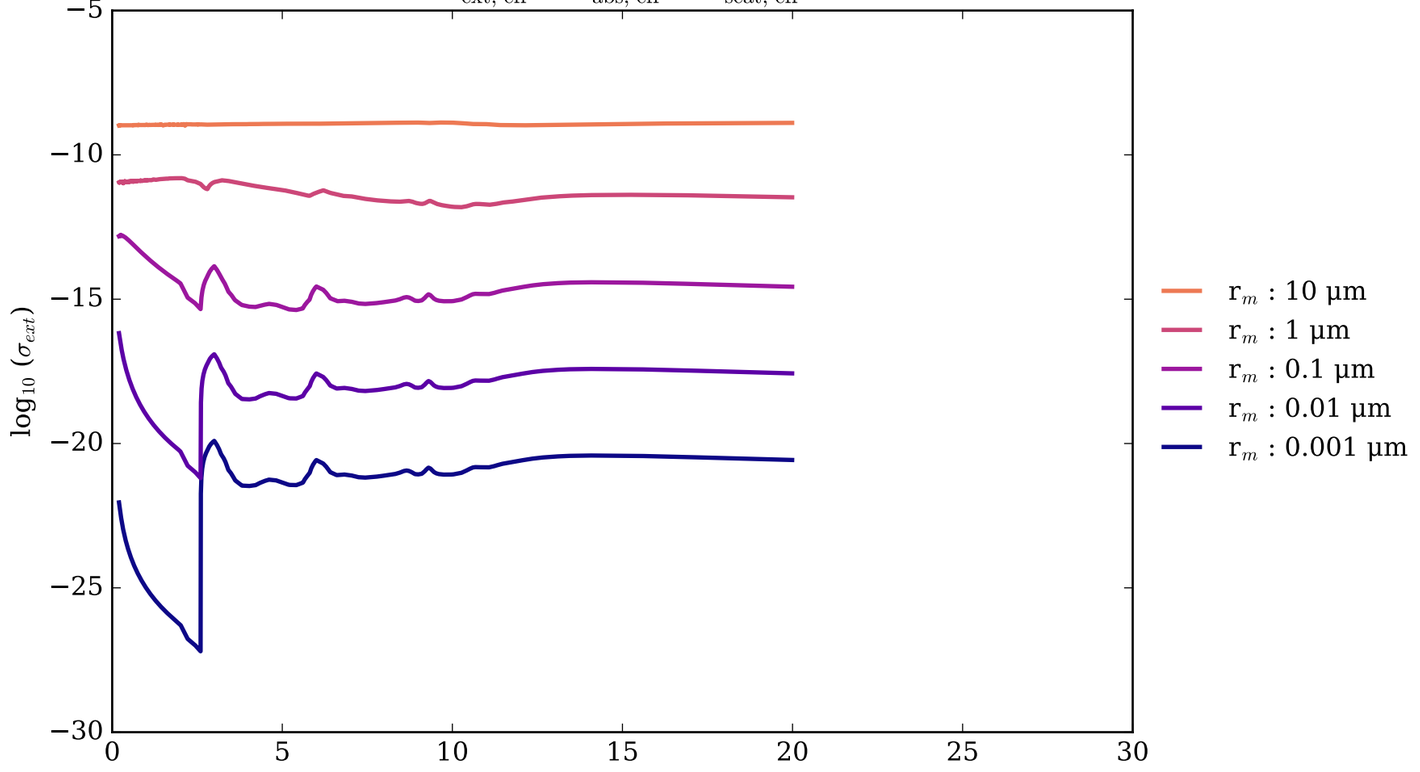
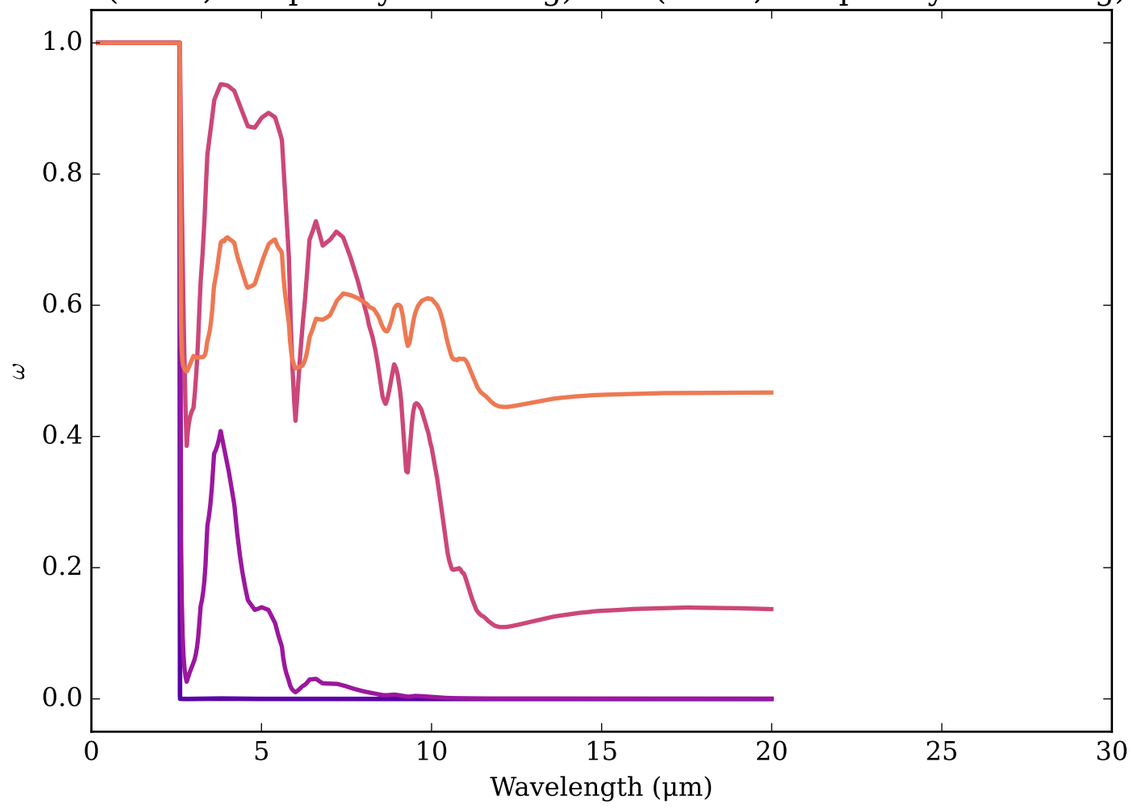
Refractive Indices for ADP
(0.2, 19.99) μm



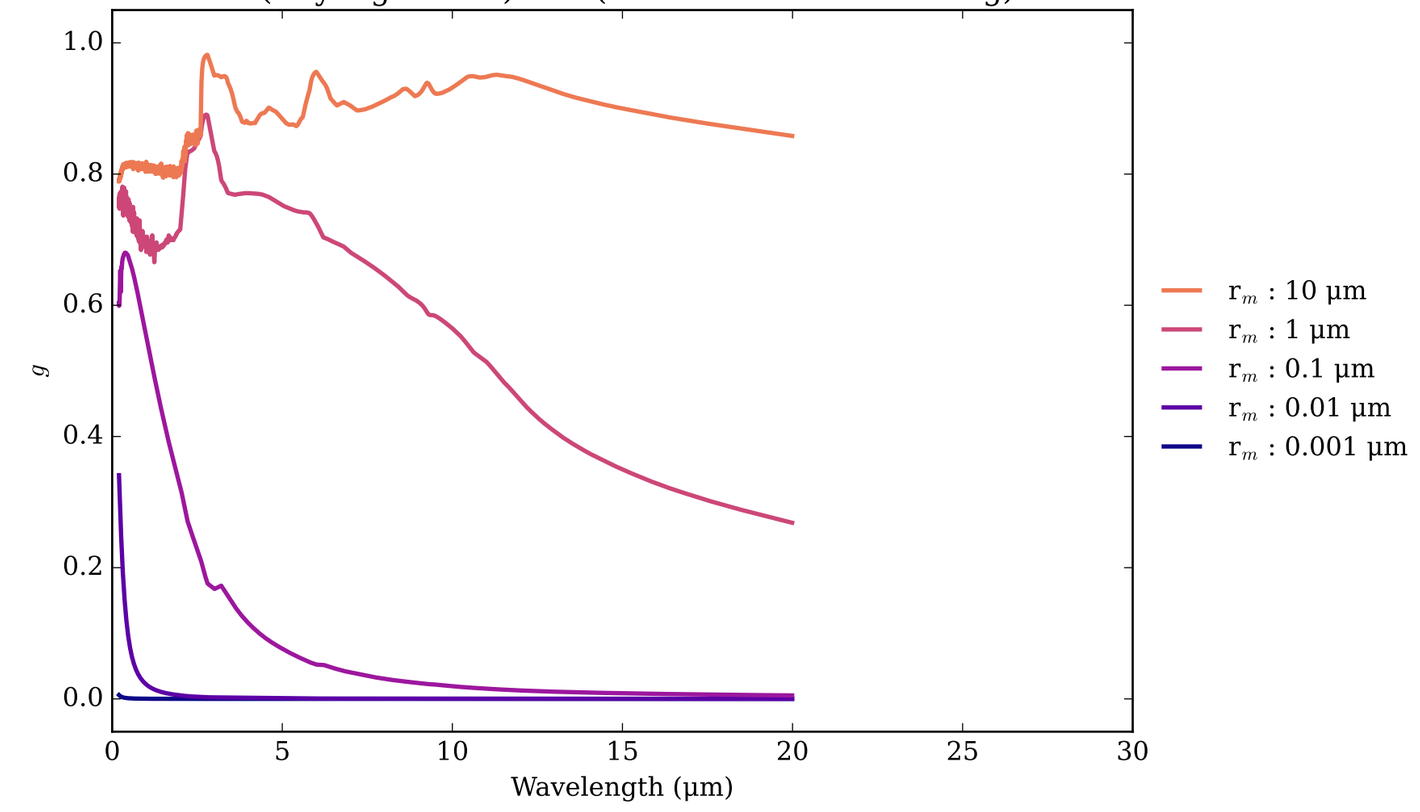
ADP Effective Extinction Cross Section
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



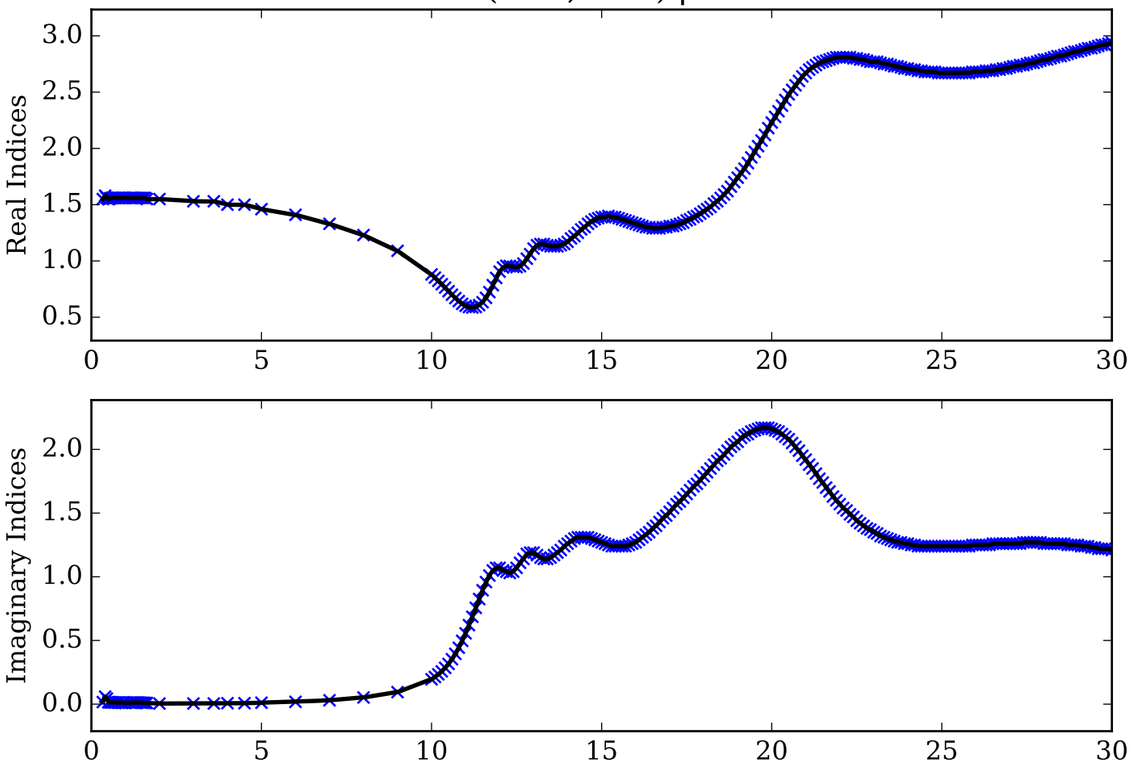
ADP Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



ADP Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

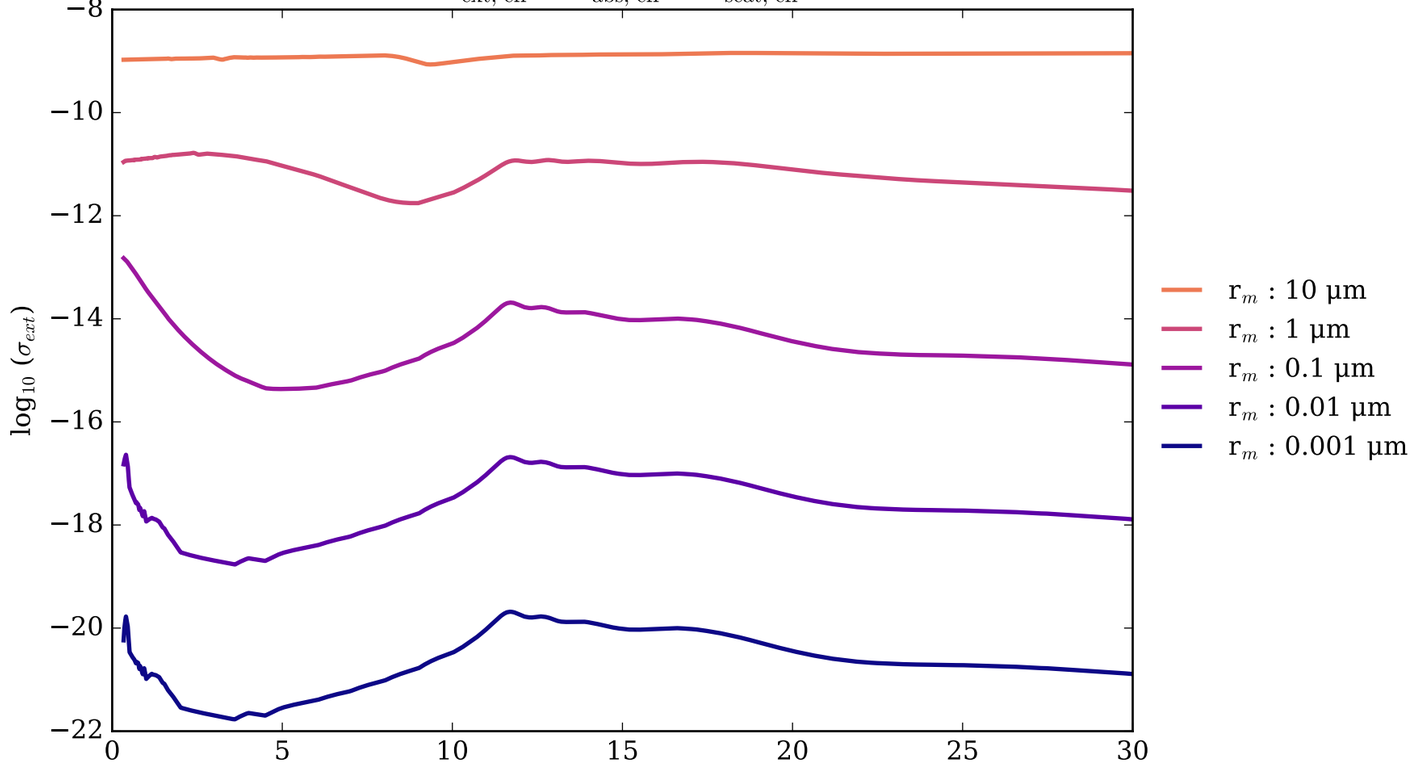


Refractive Indices for Al2O3
(0.34, 30.0) μm

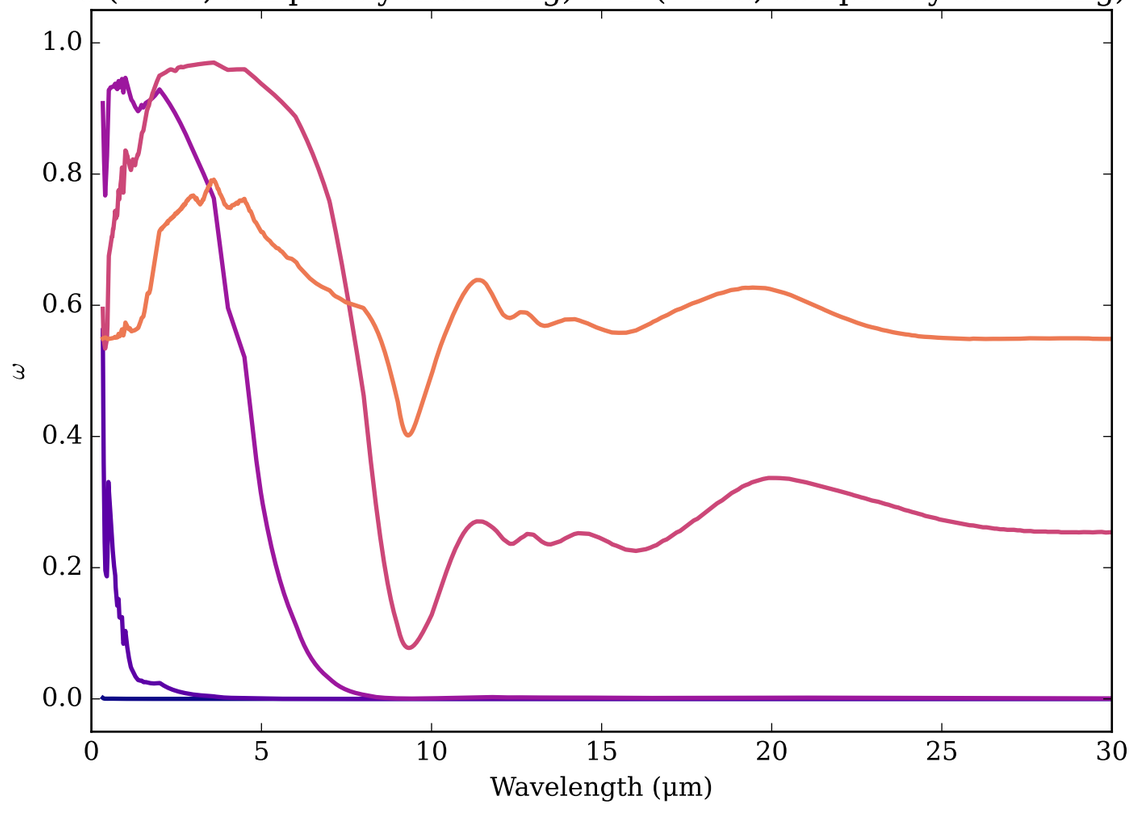


Al2O3 Effective Extinction Cross Section

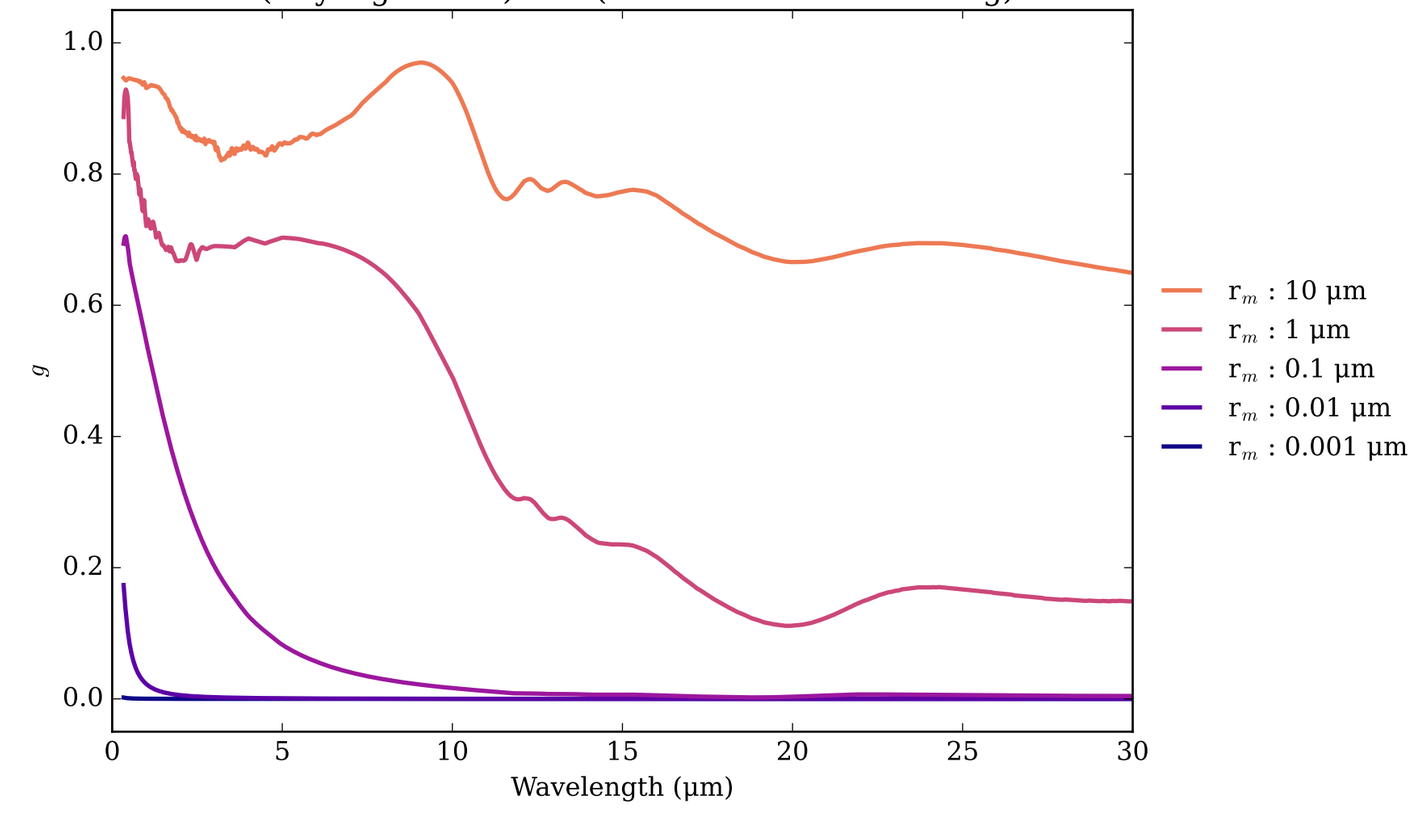
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



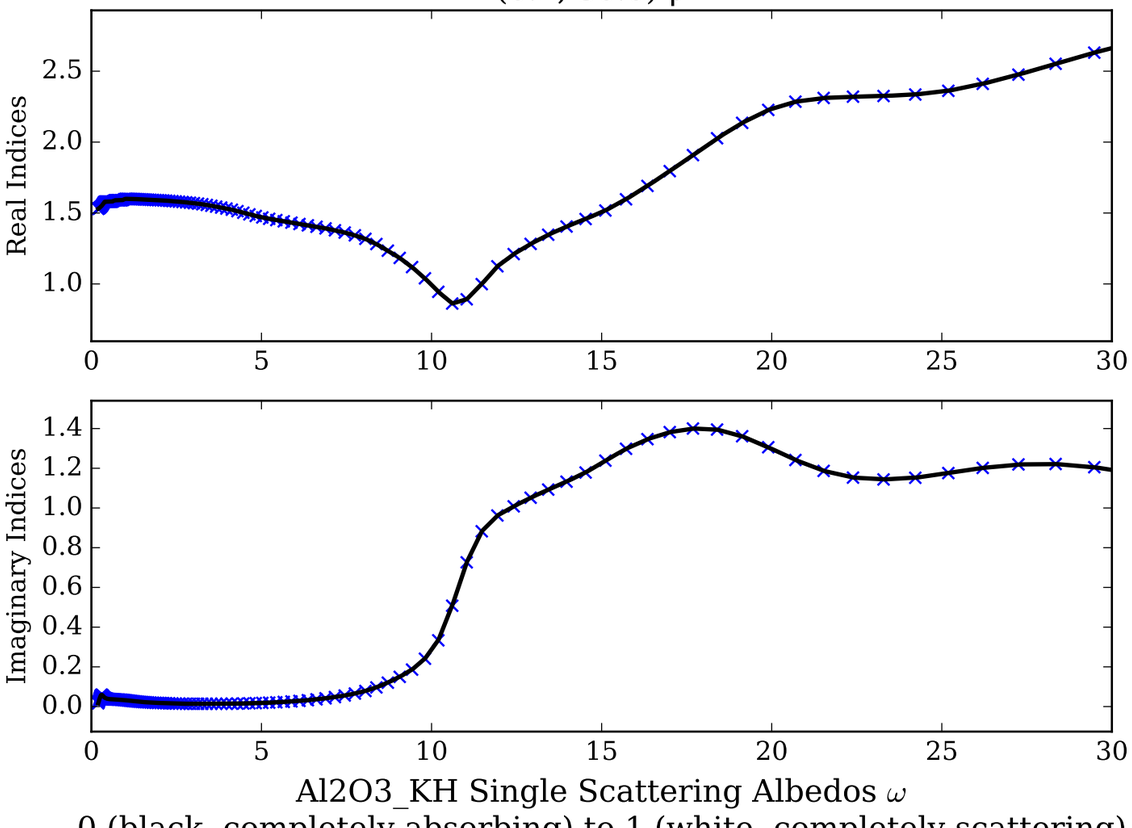
Al2O3 Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Al2O3 Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

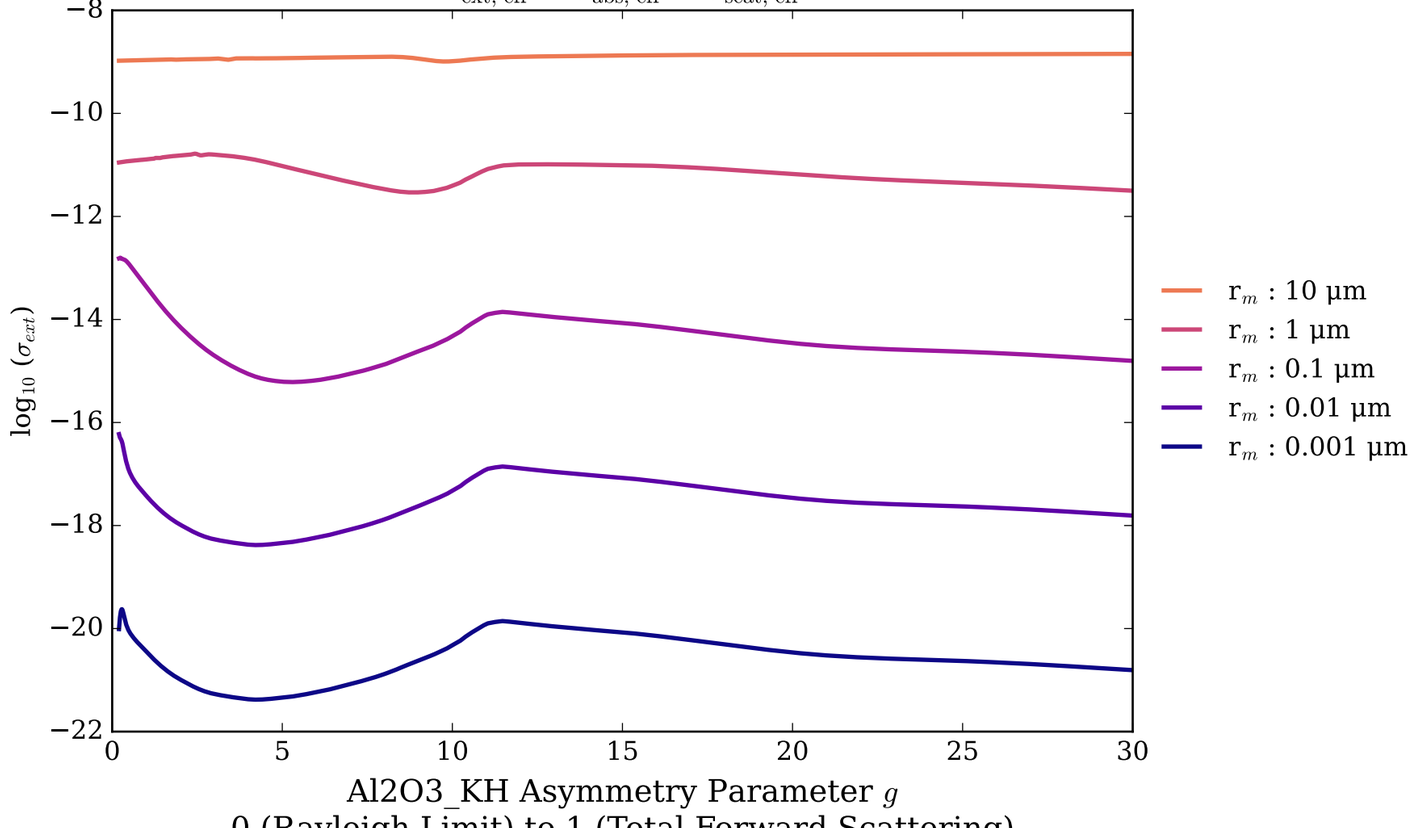


Refractive Indices for Al2O3
(0.2, 30.0) μm

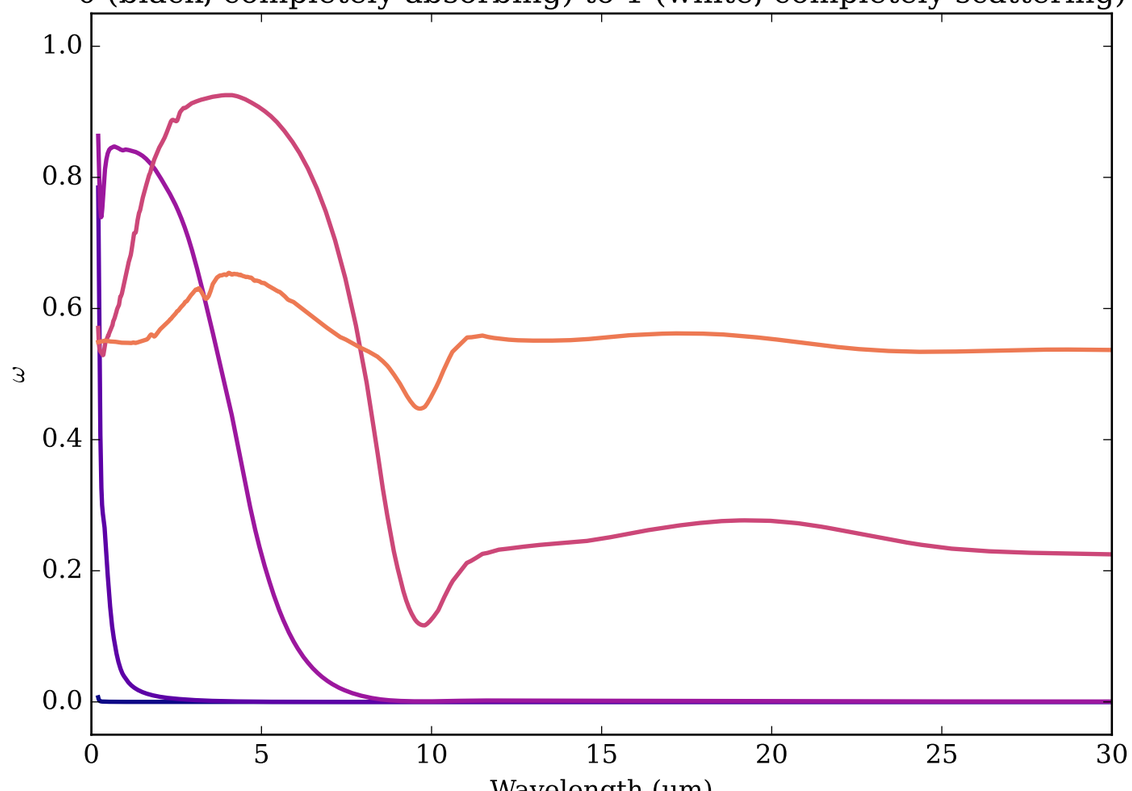


Al2O3_KH Effective Extinction Cross Section

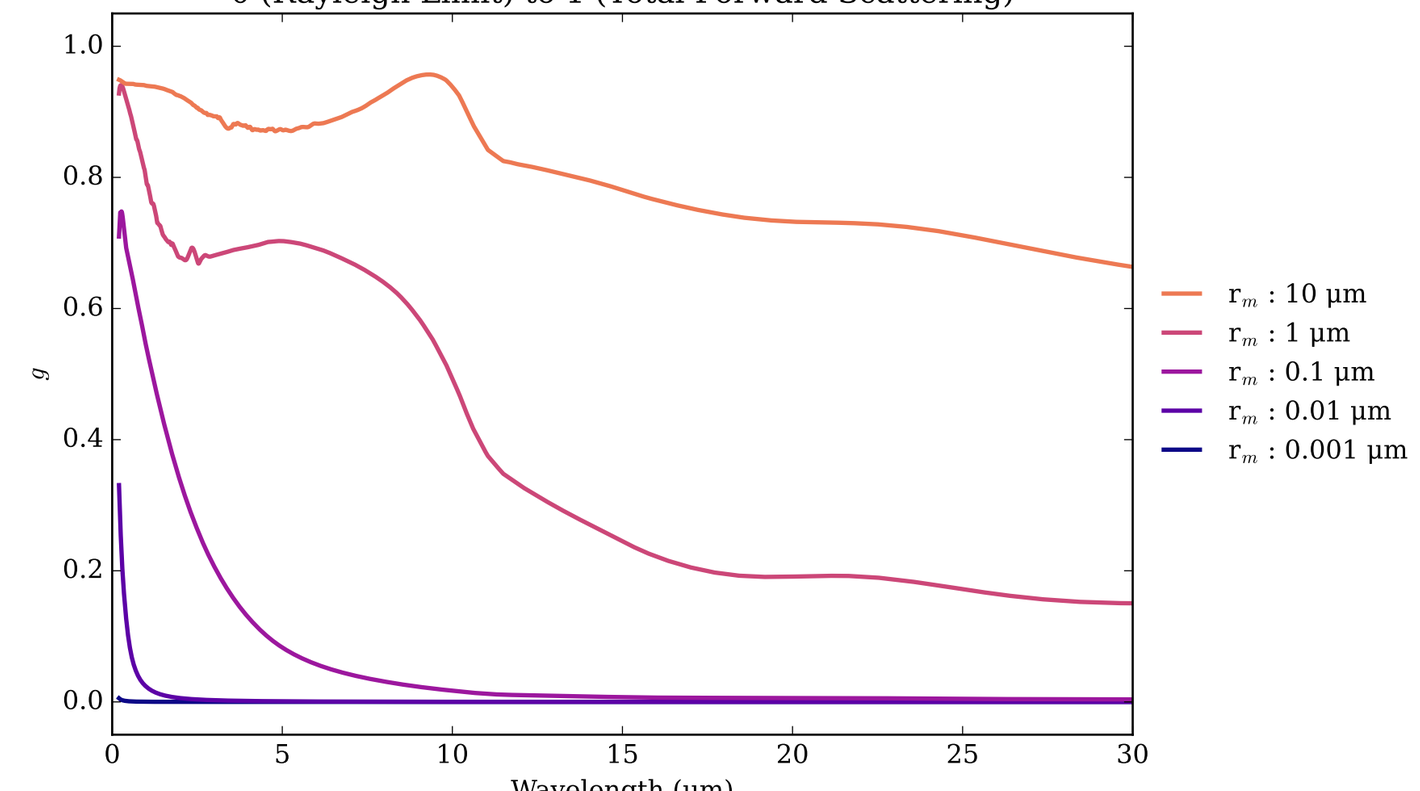
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



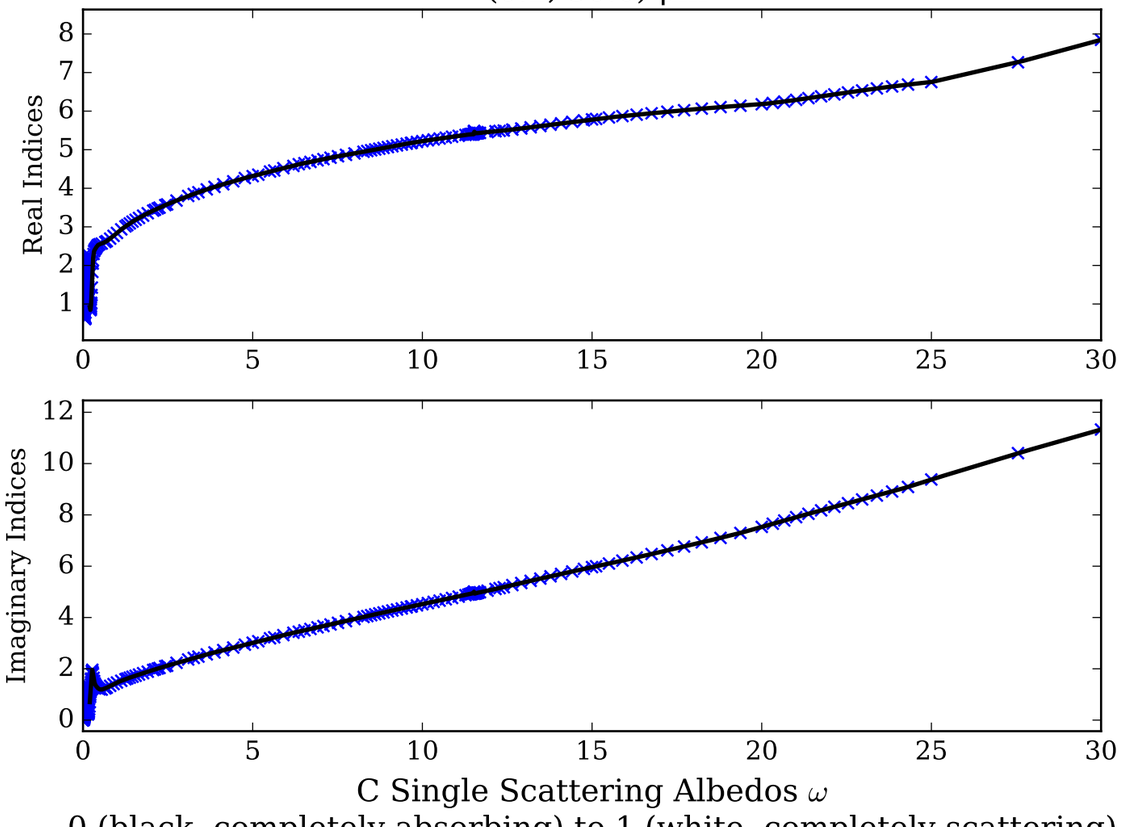
Al2O3_KH Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



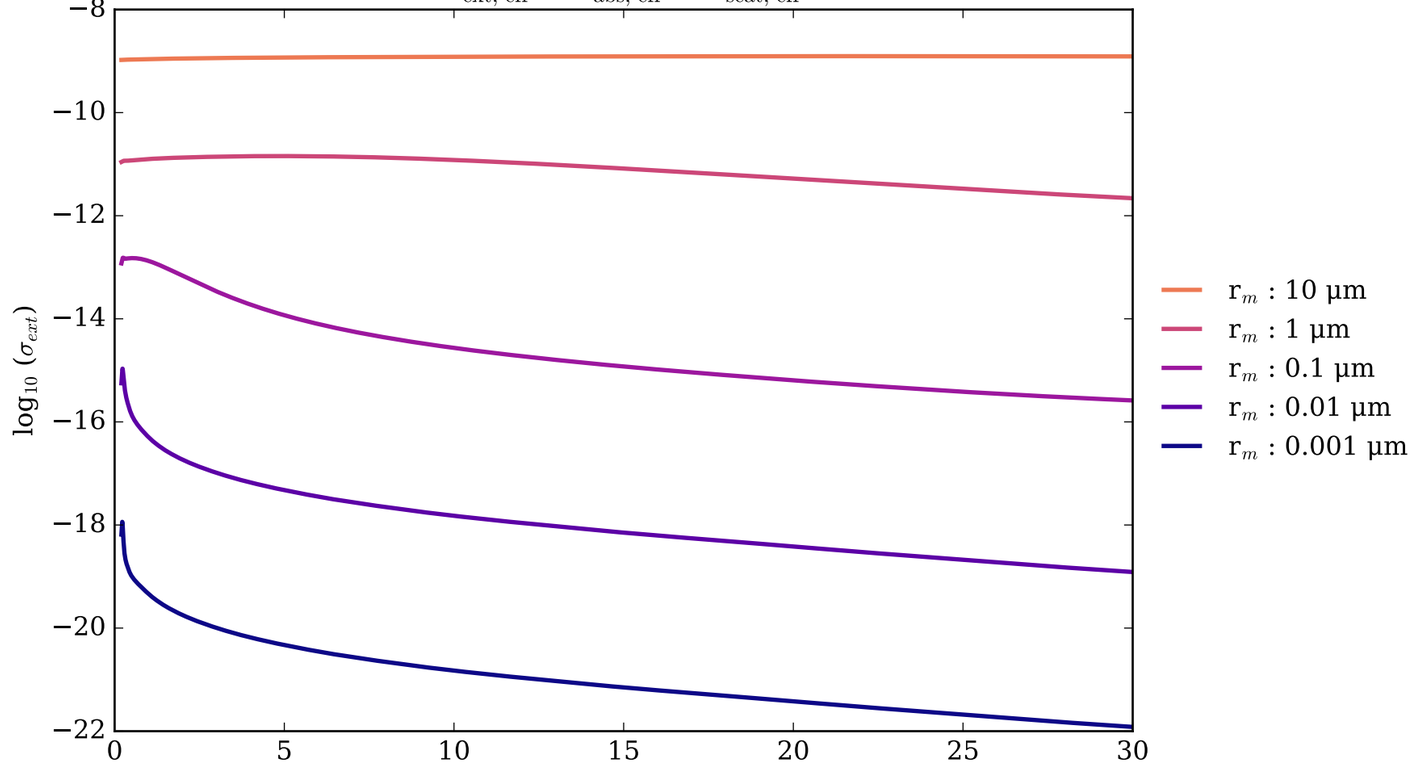
Al2O3_KH Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



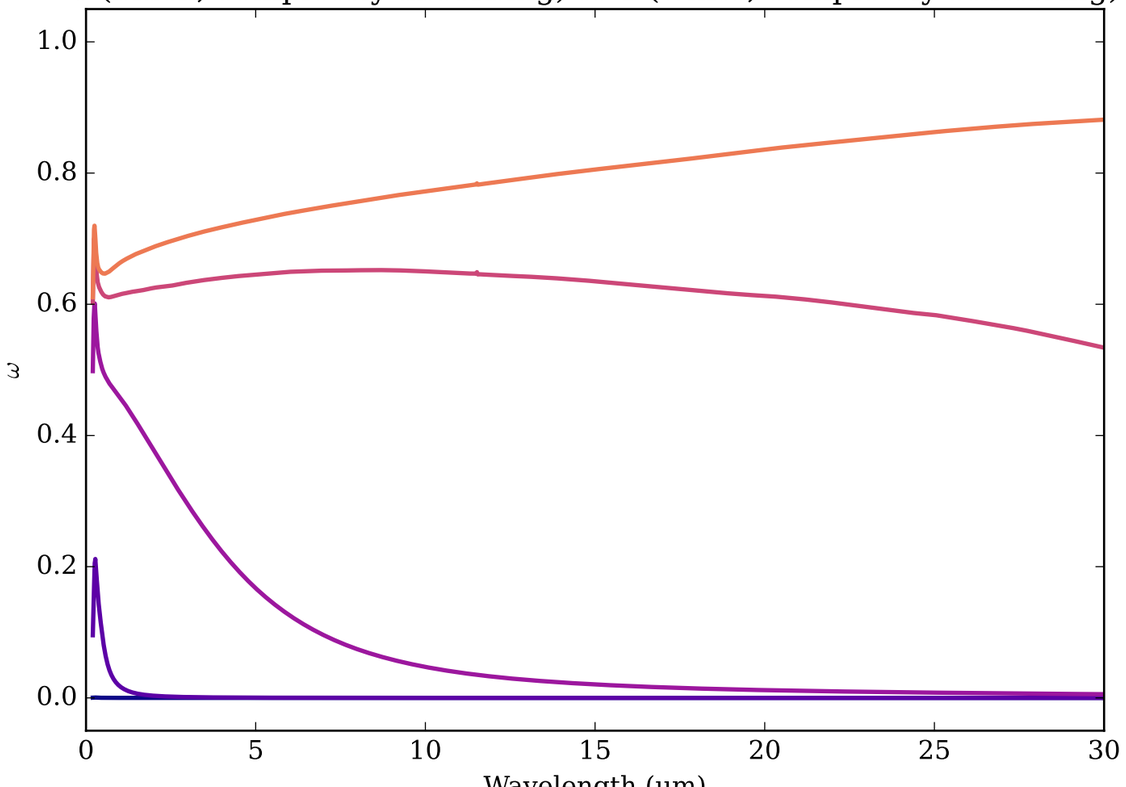
Refractive Indices for C
(0.2, 30.0) μm



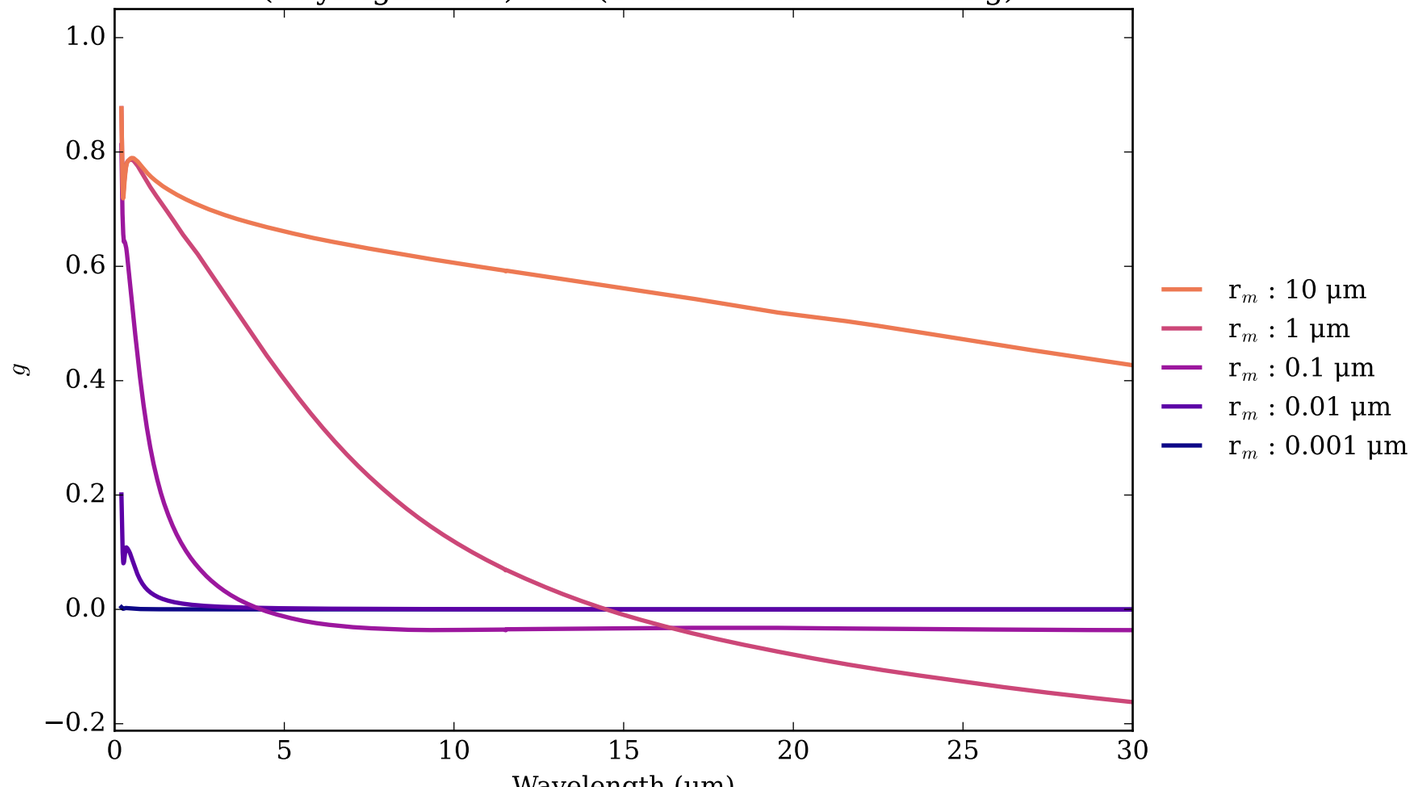
C Effective Extinction Cross Section
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



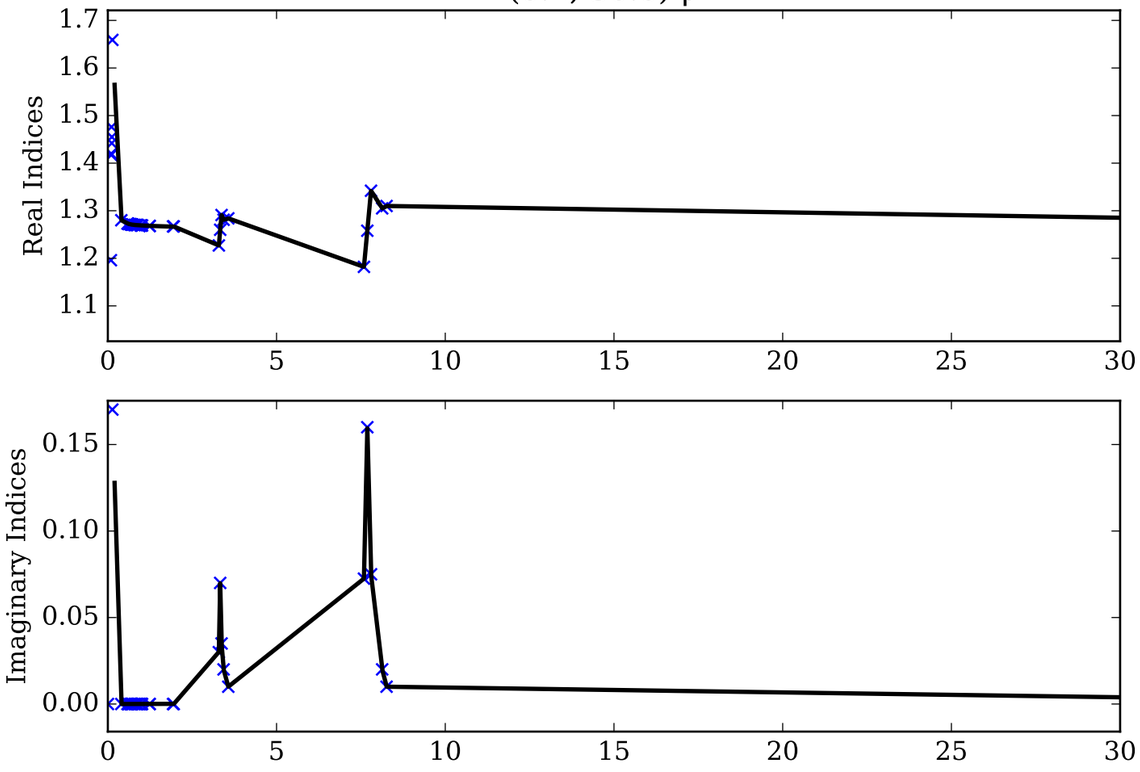
C Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



C Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

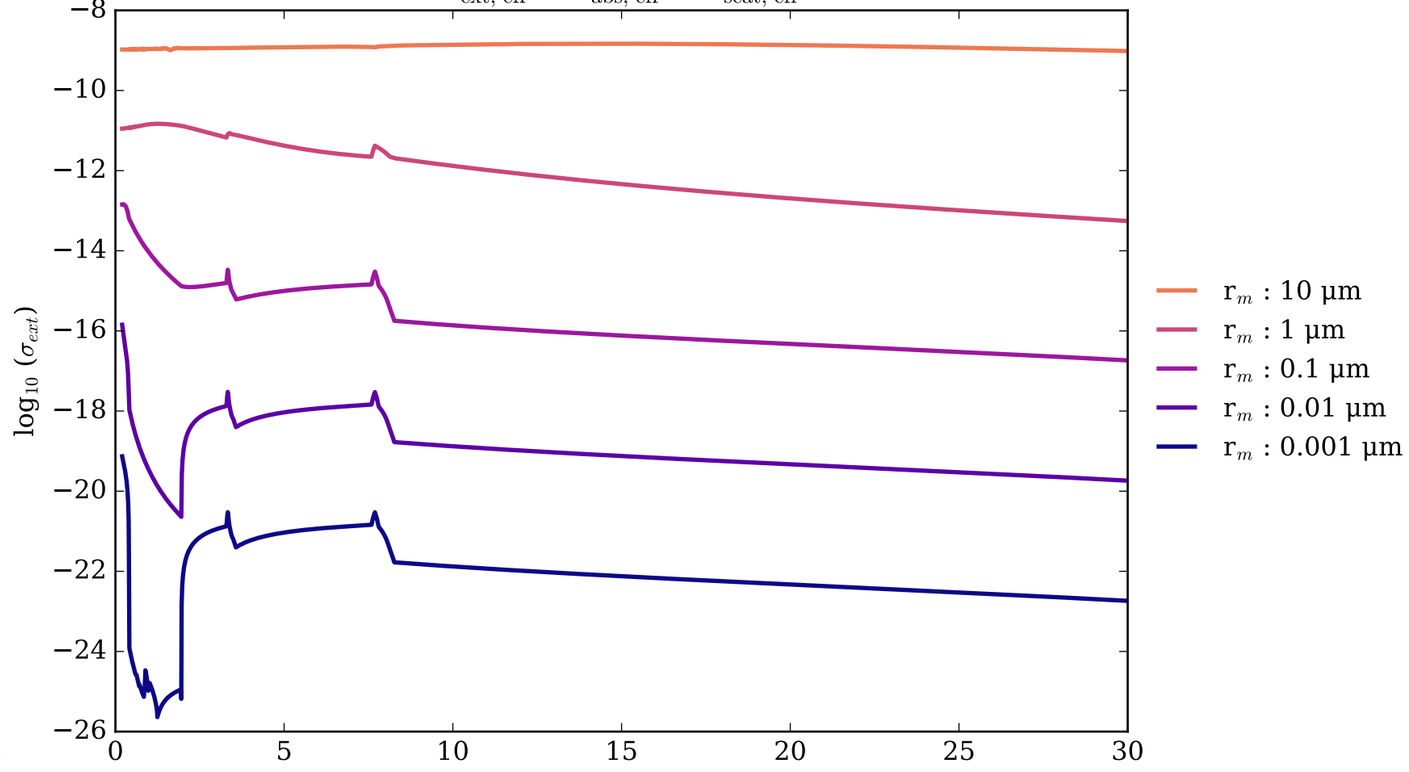


Refractive Indices for CH4
(0.2, 30.0) μm

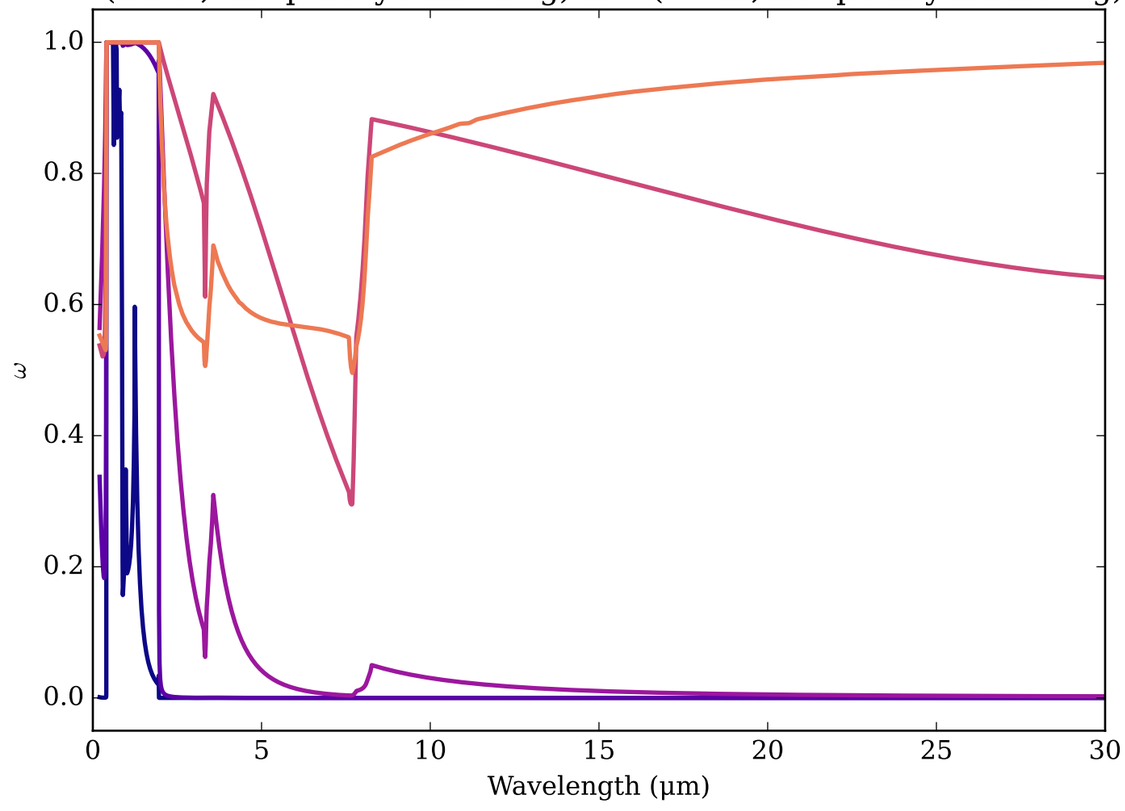


CH4_liquid Effective Extinction Cross Section

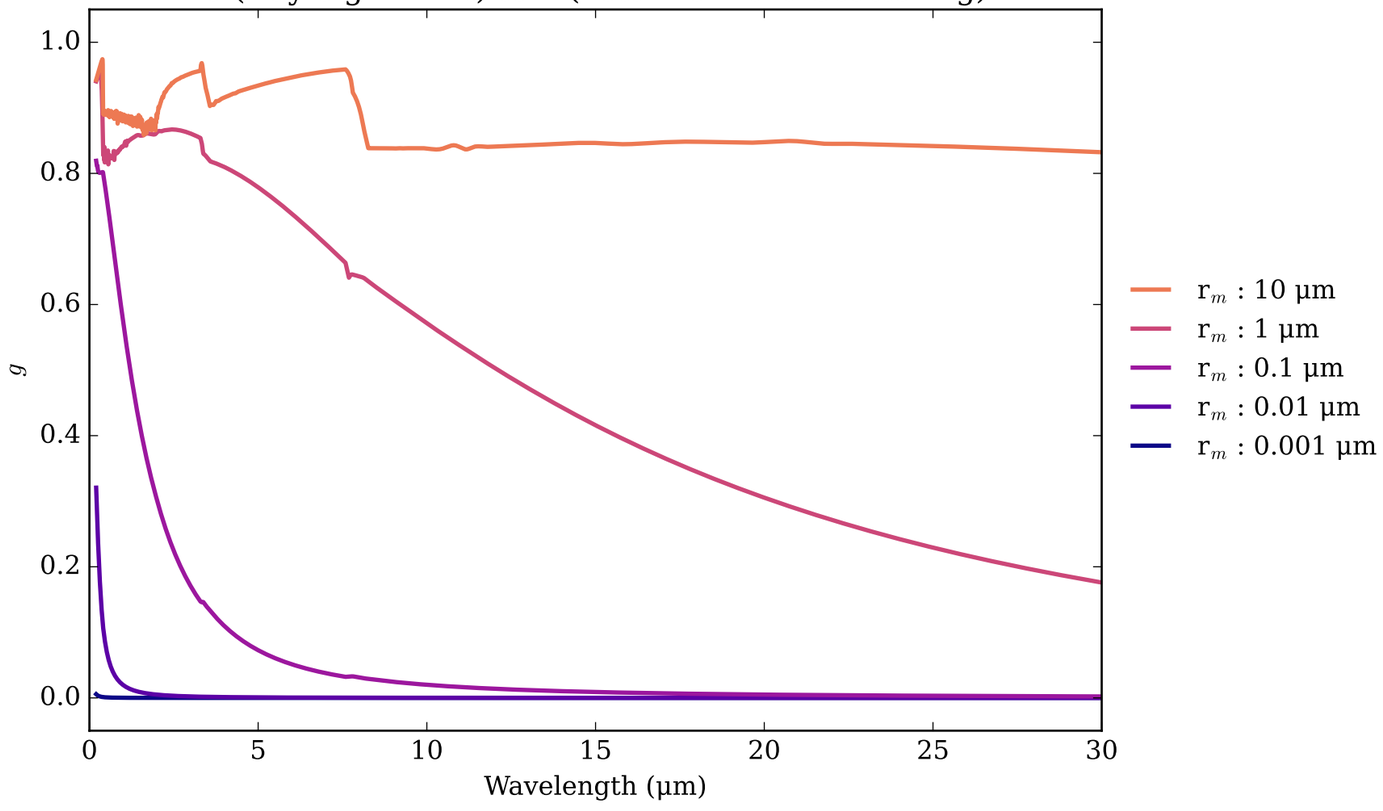
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



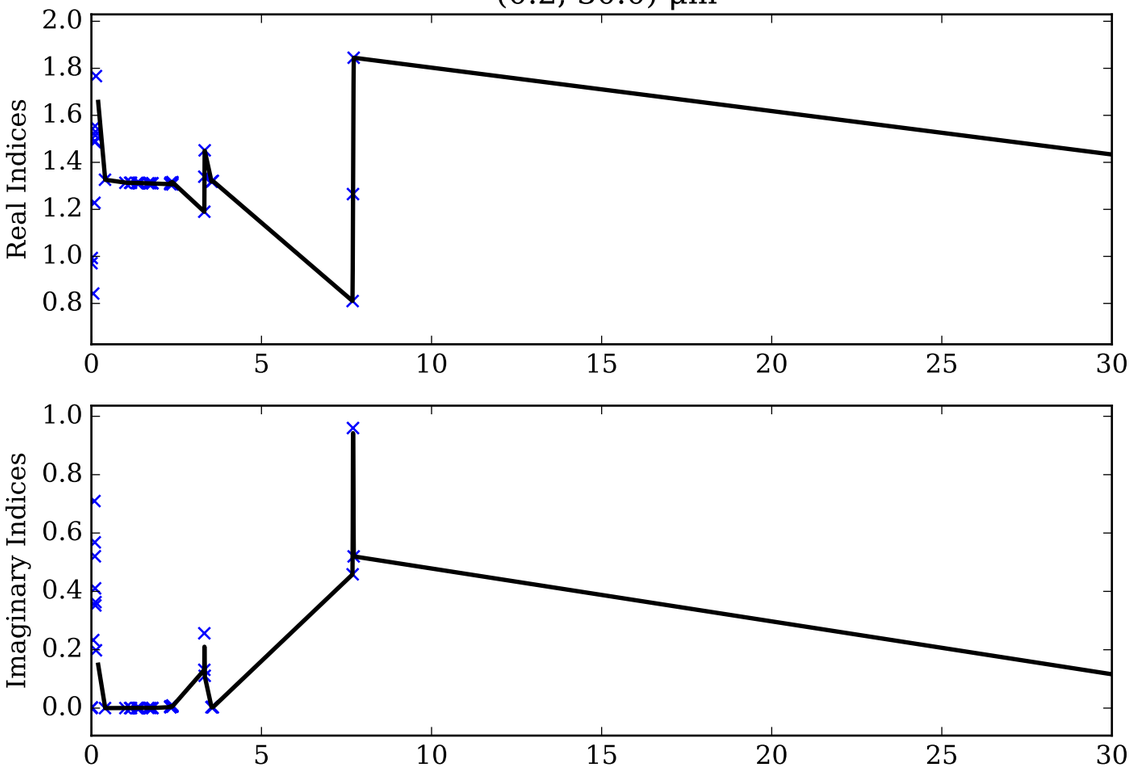
CH4_liquid Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



CH4_liquid Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

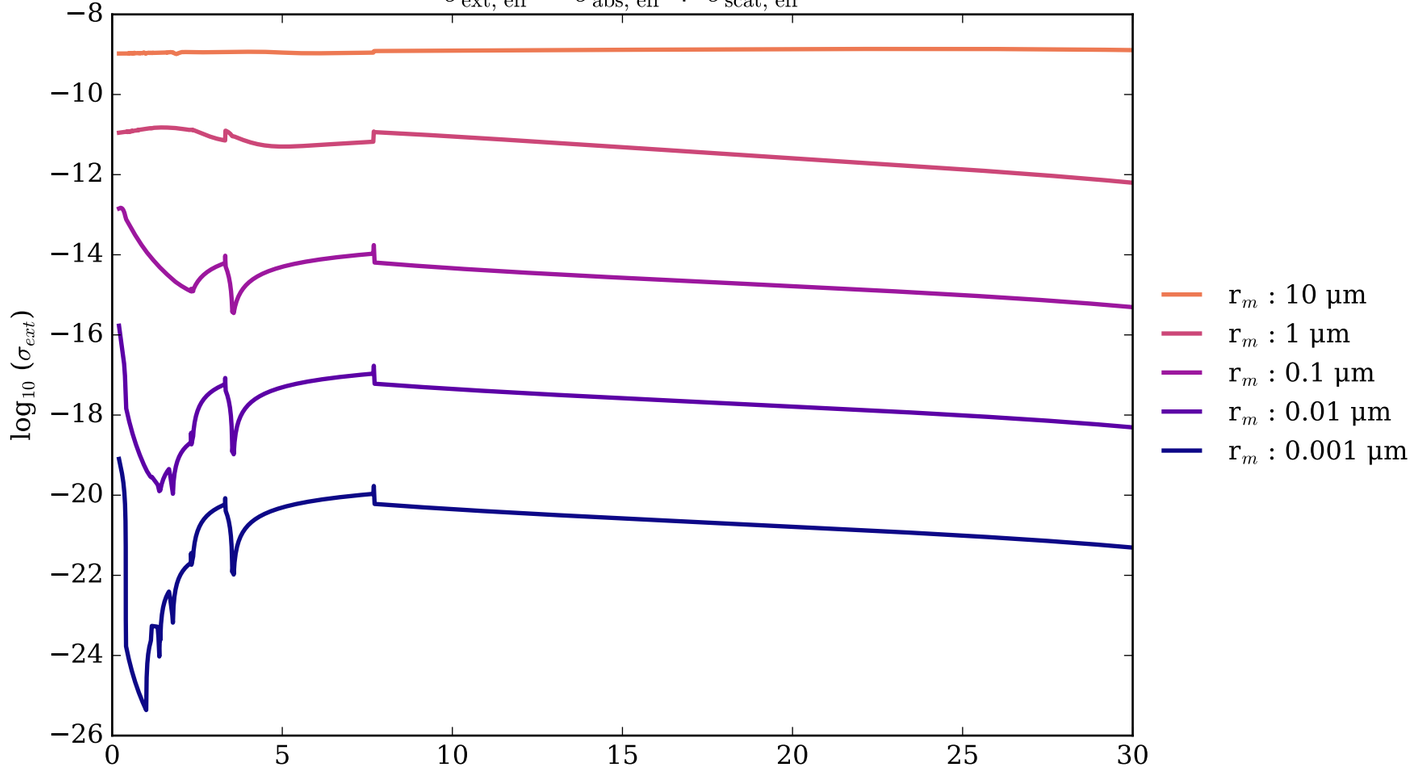


Refractive Indices for CH4
(0.2, 30.0) μm

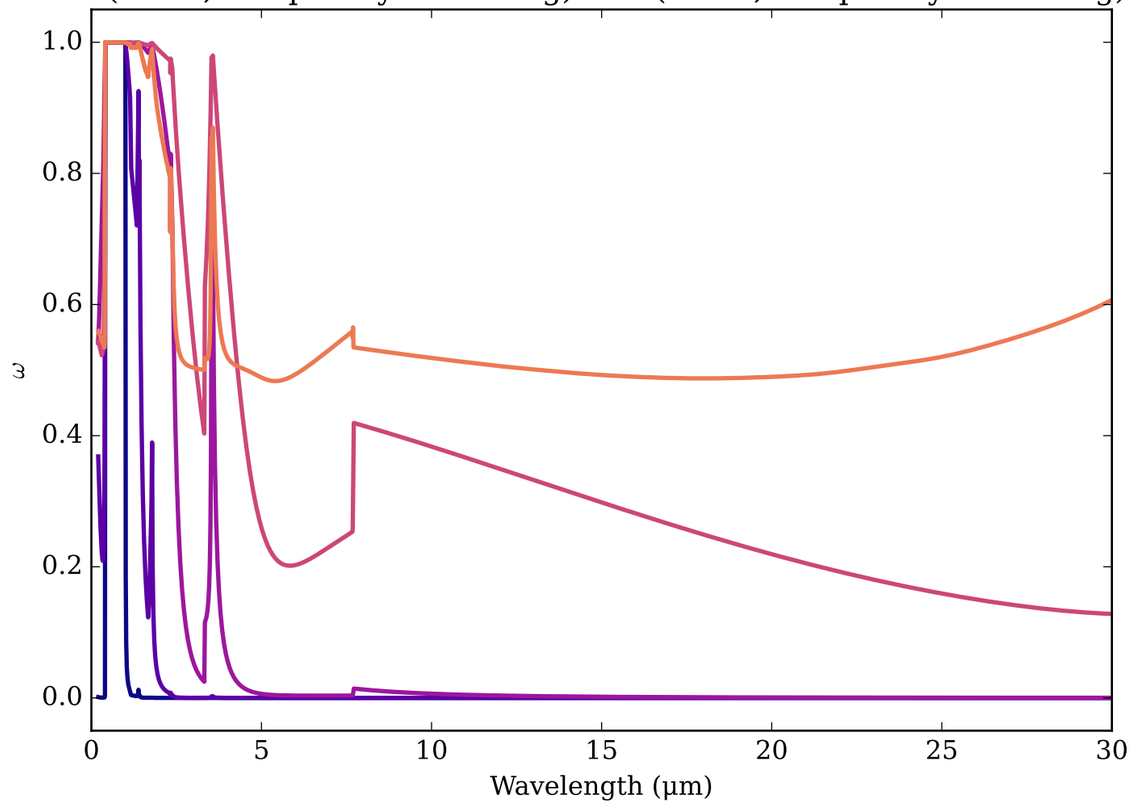


CH4_solid Effective Extinction Cross Section

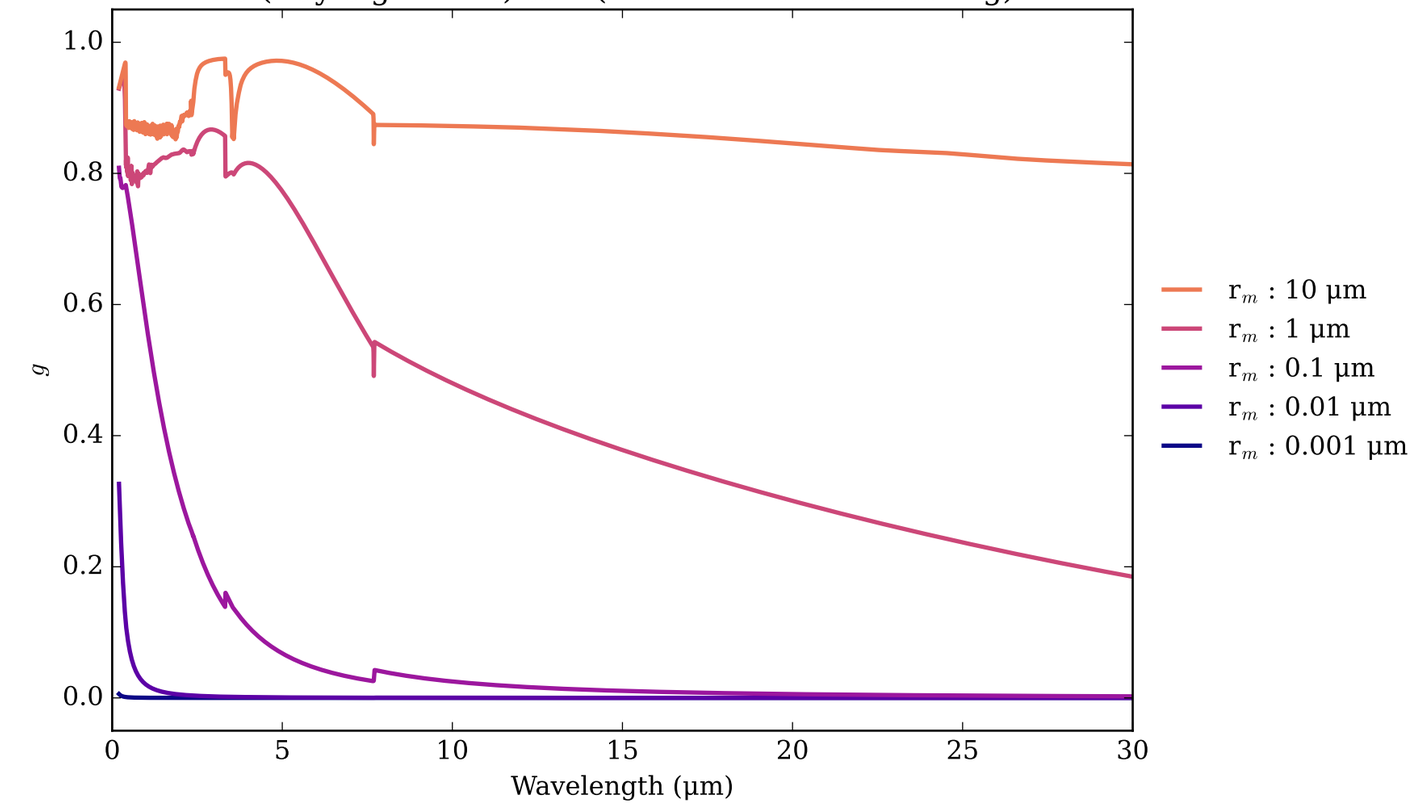
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



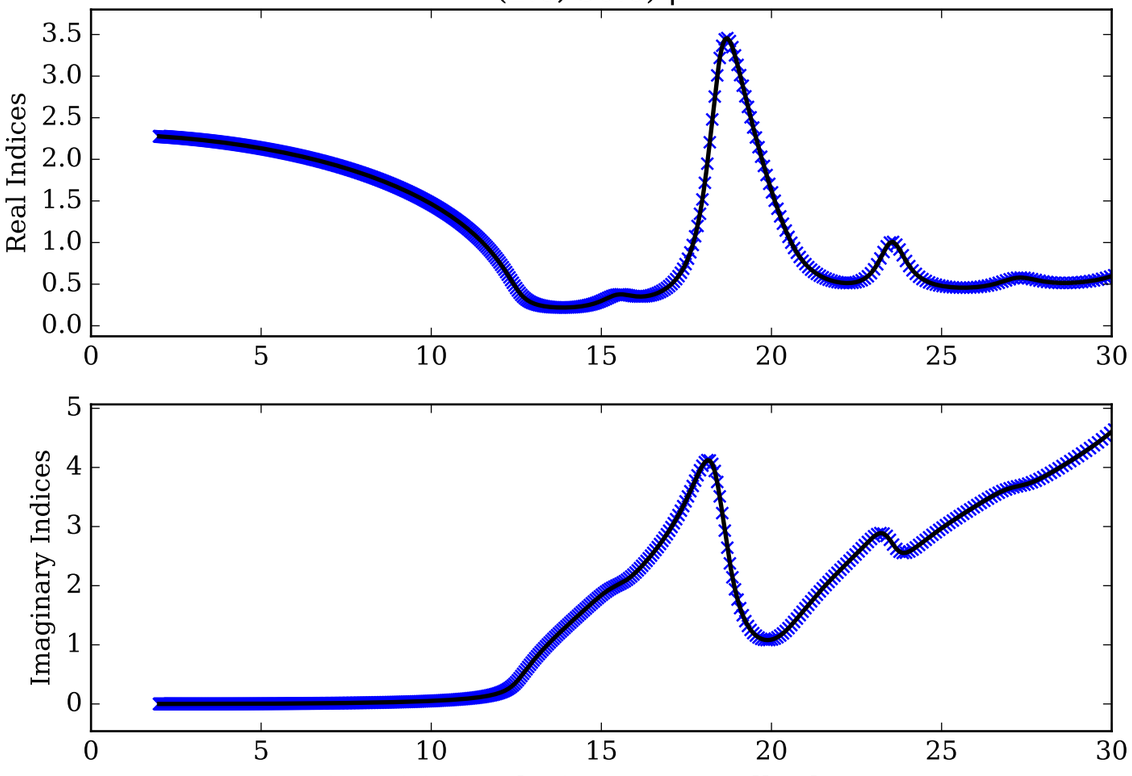
CH4_solid Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



CH4_solid Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

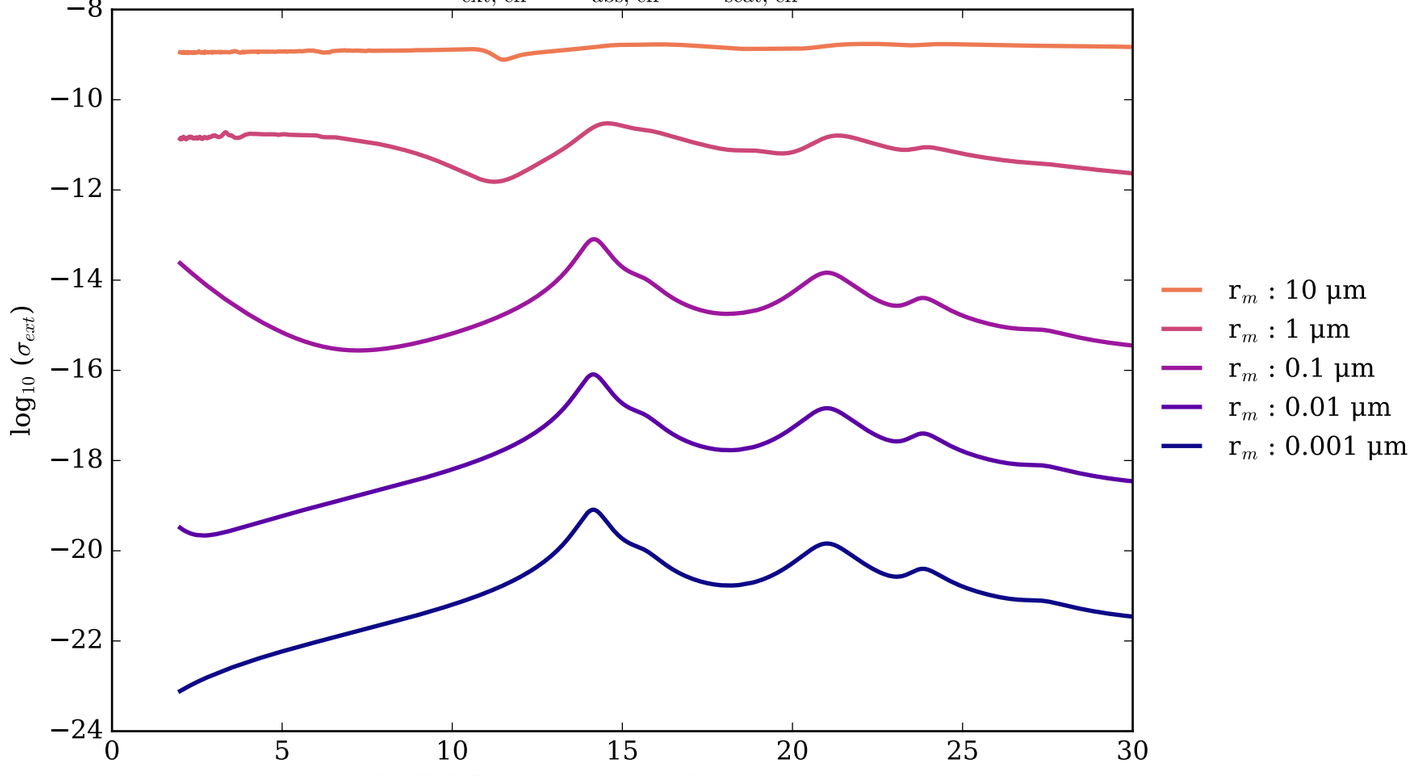


Refractive Indices for CaTiO3
(2.0, 30.0) μm

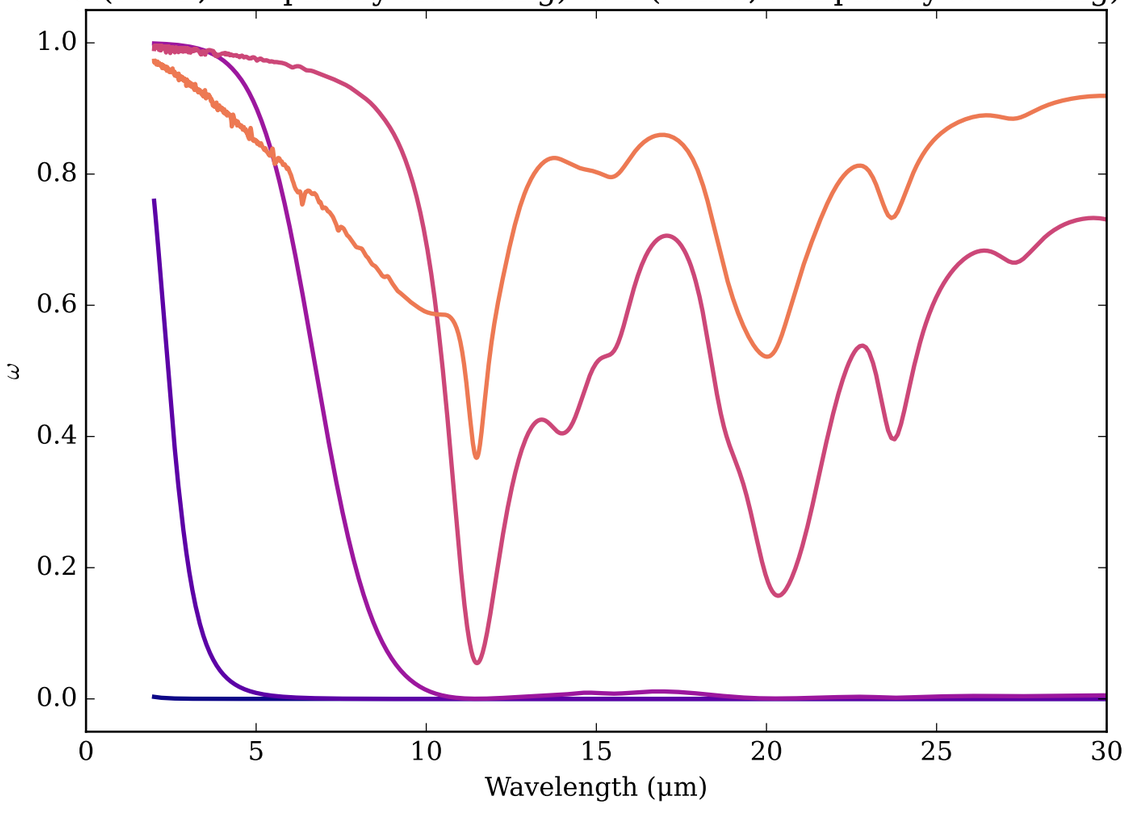


CaTiO3 Effective Extinction Cross Section

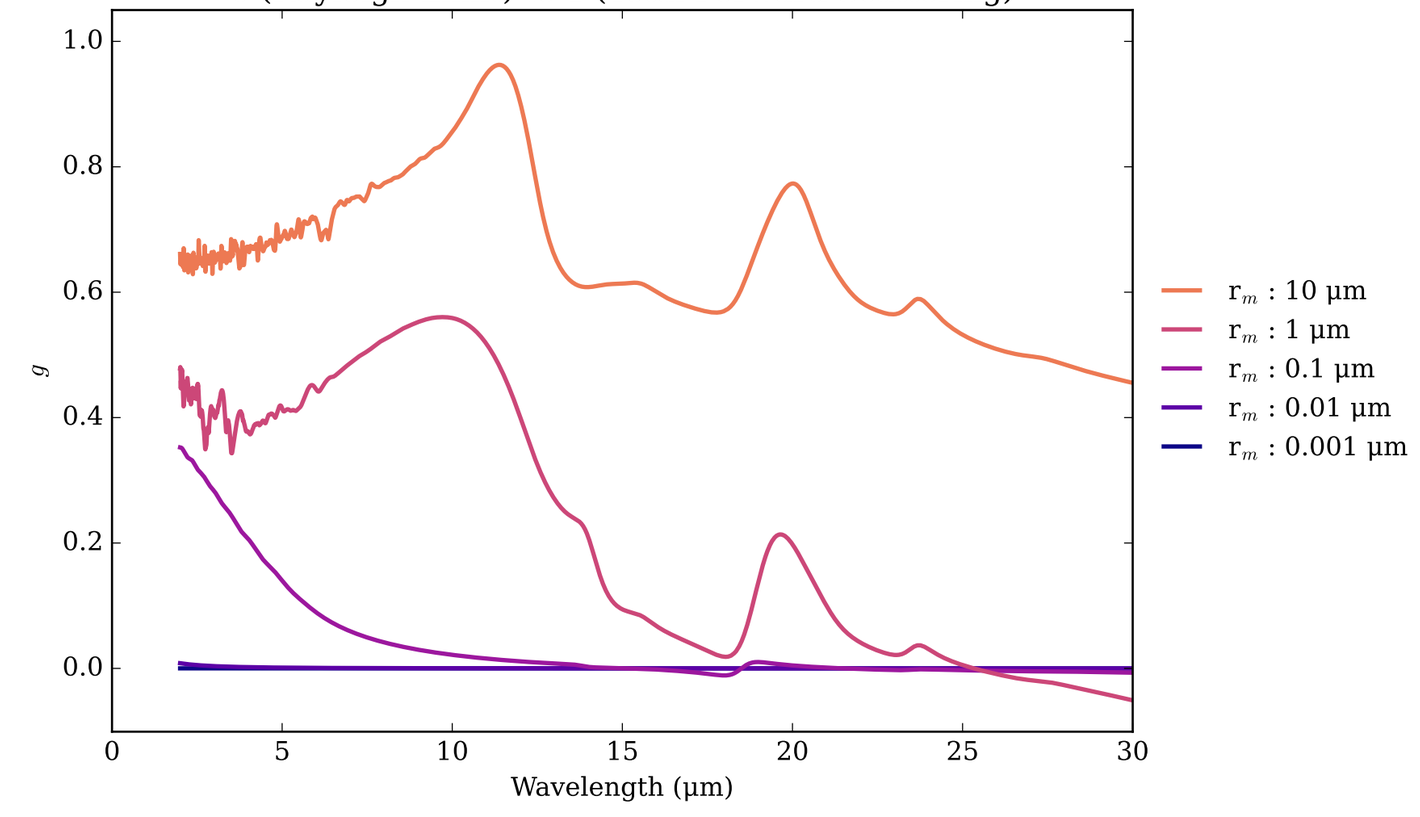
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



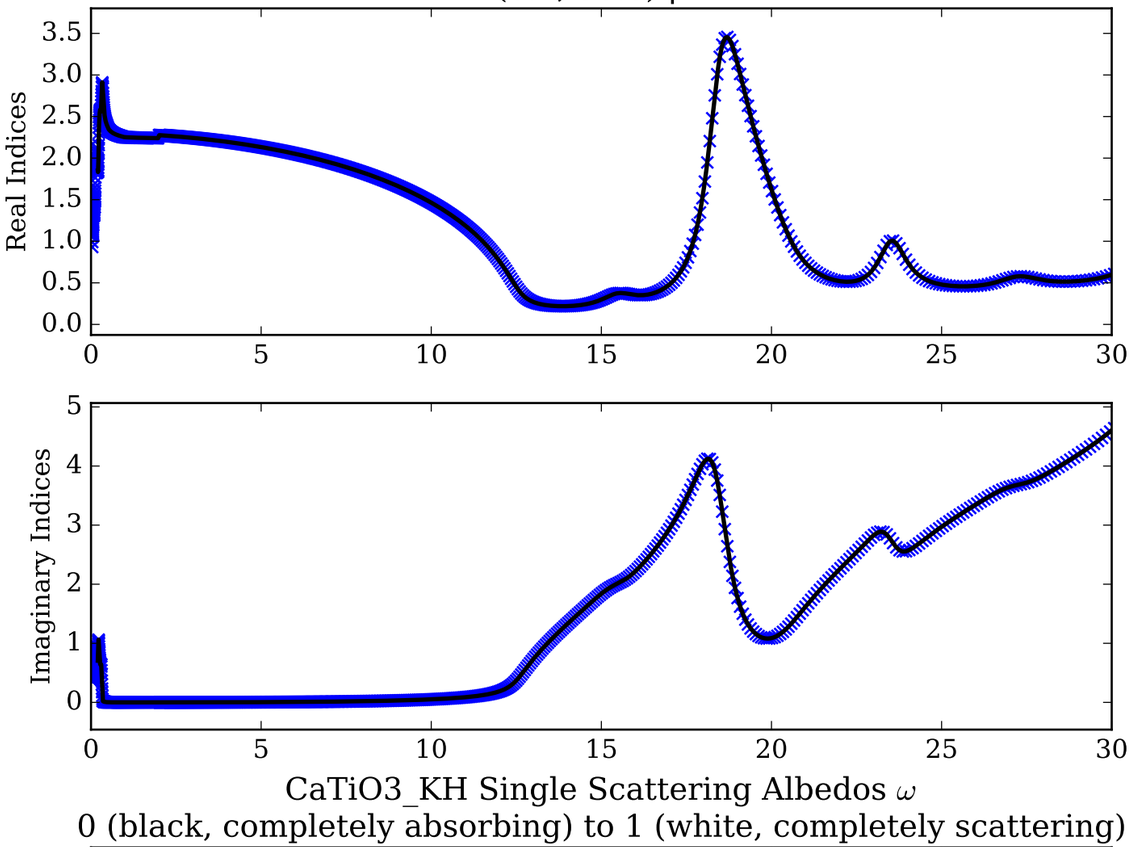
CaTiO3 Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



CaTiO3 Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

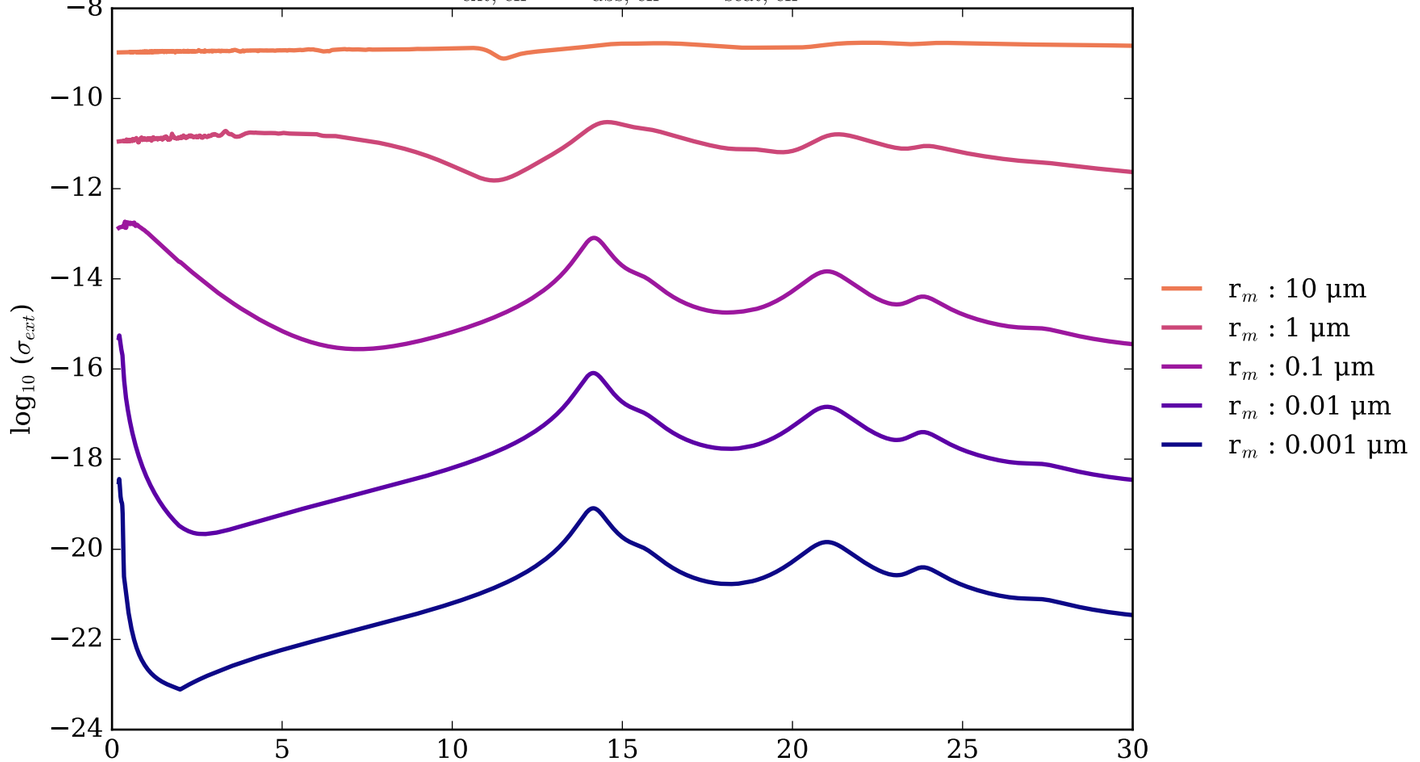


Refractive Indices for CaTiO3
(0.2, 30.0) μm

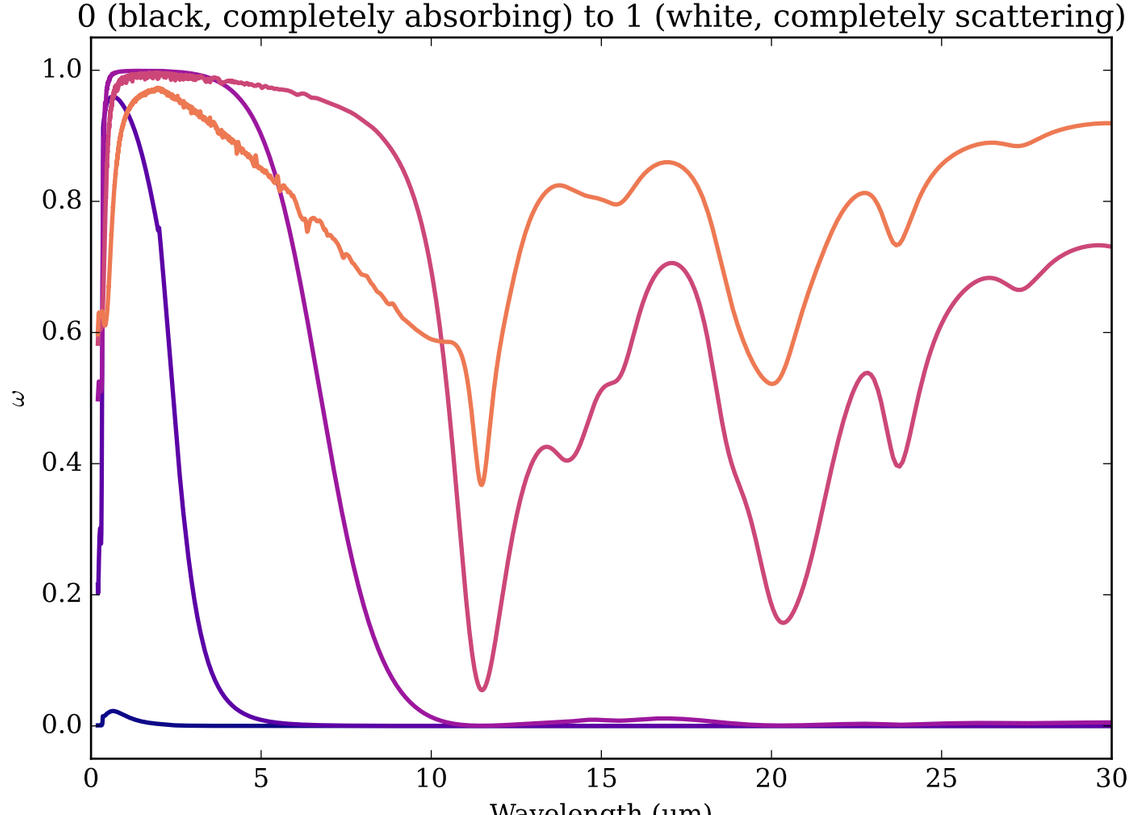


CaTiO3_KH Effective Extinction Cross Section

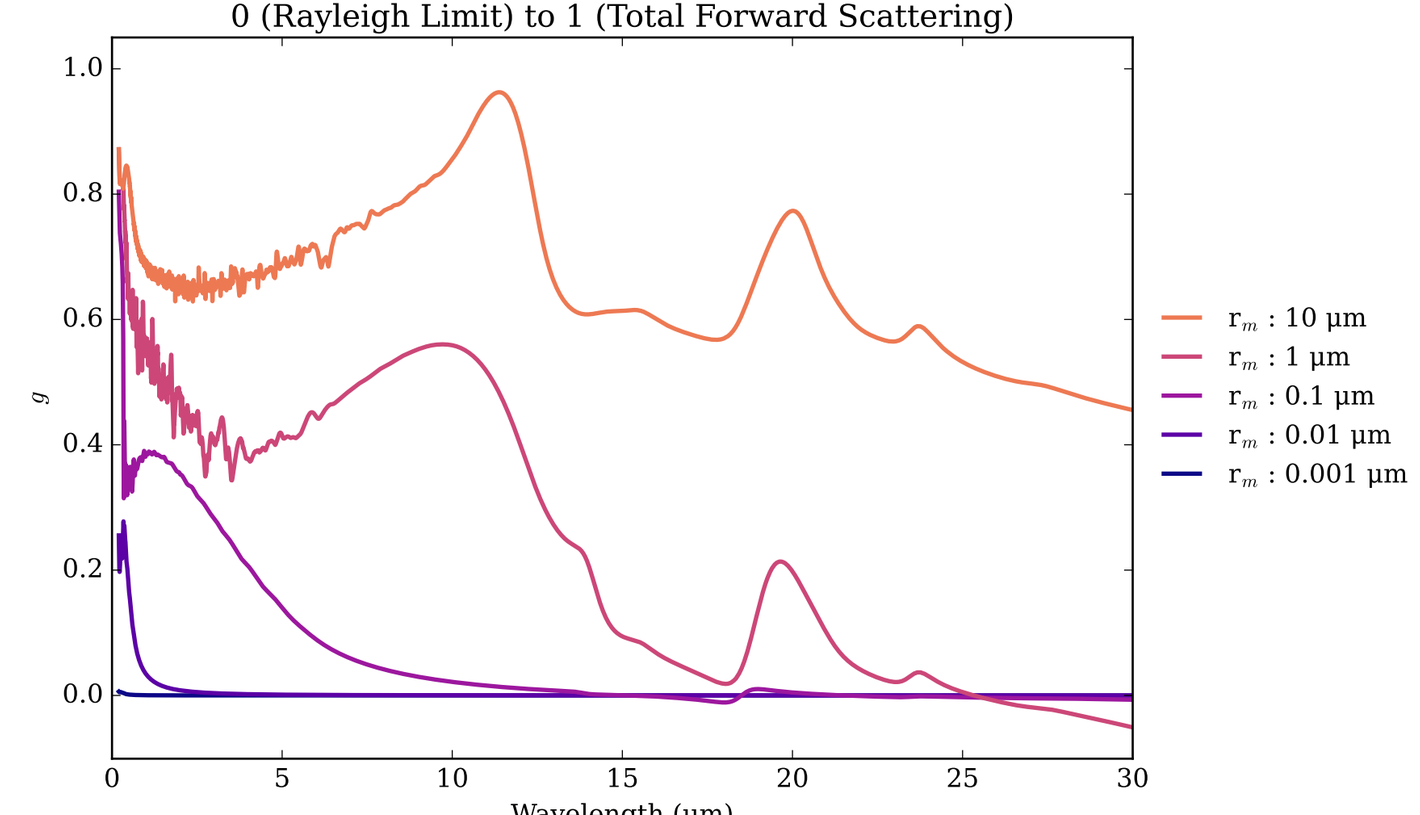
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



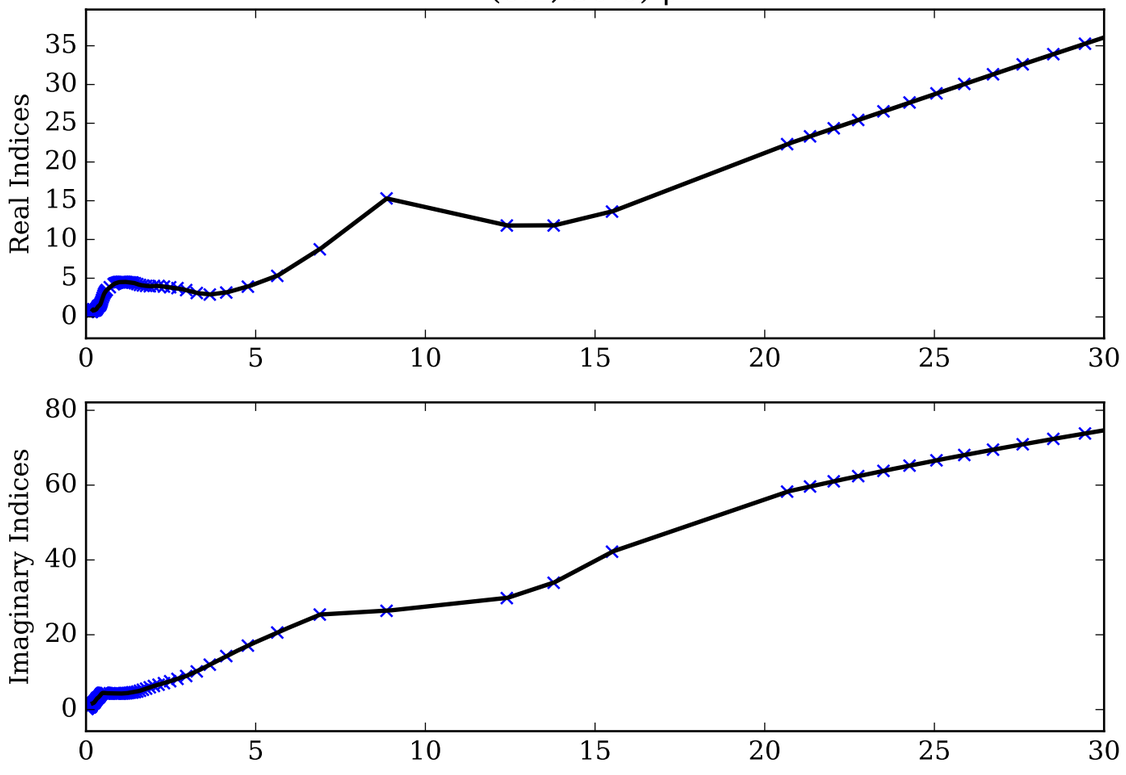
CaTiO3_KH Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



CaTiO3_KH Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

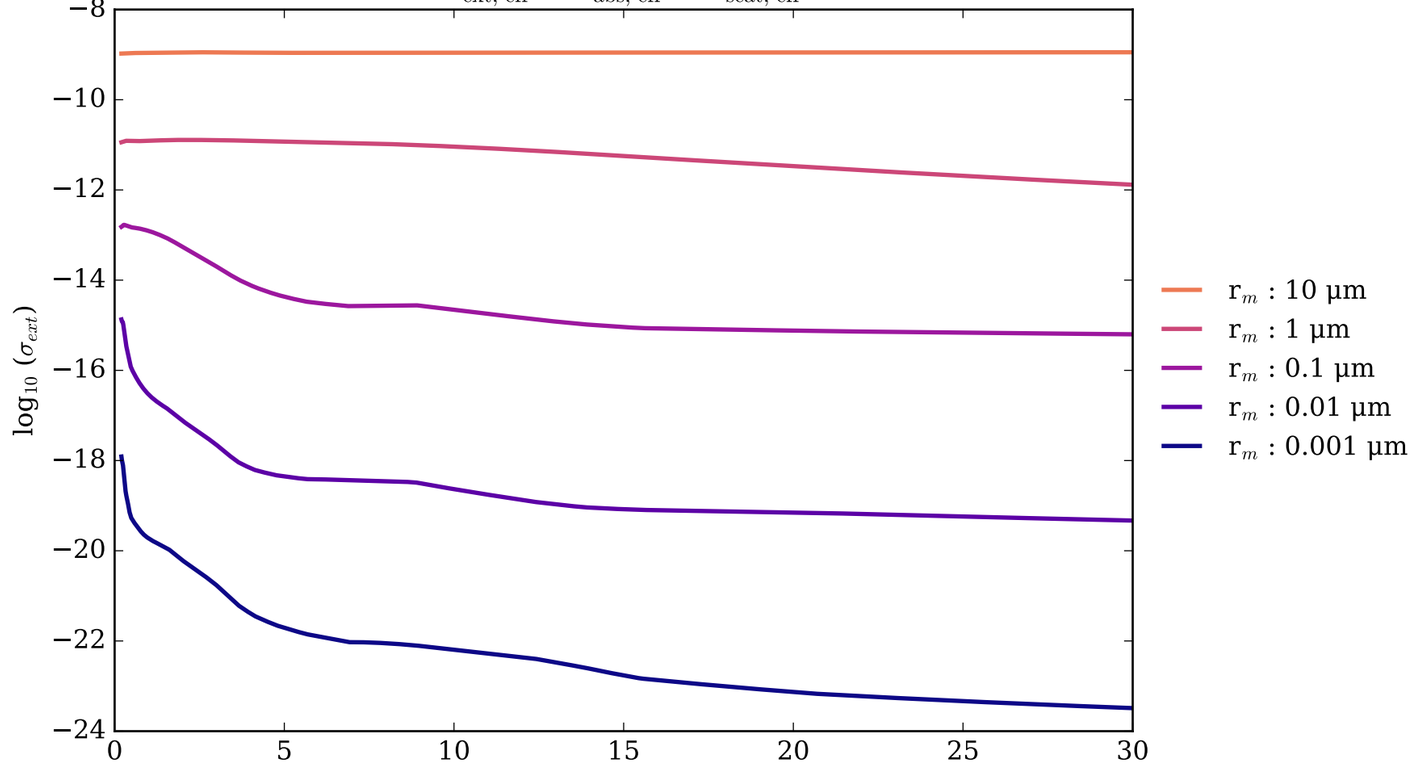


Refractive Indices for Cr
(0.2, 30.0) μm

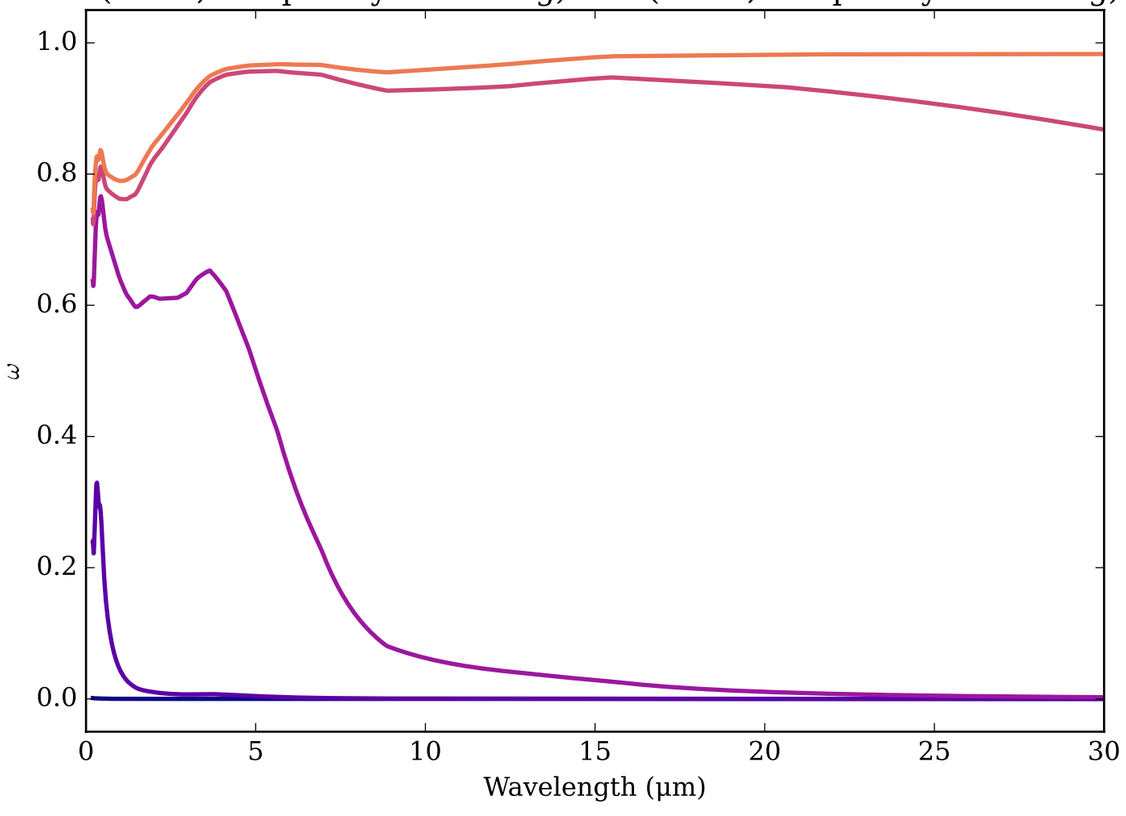


Cr Effective Extinction Cross Section

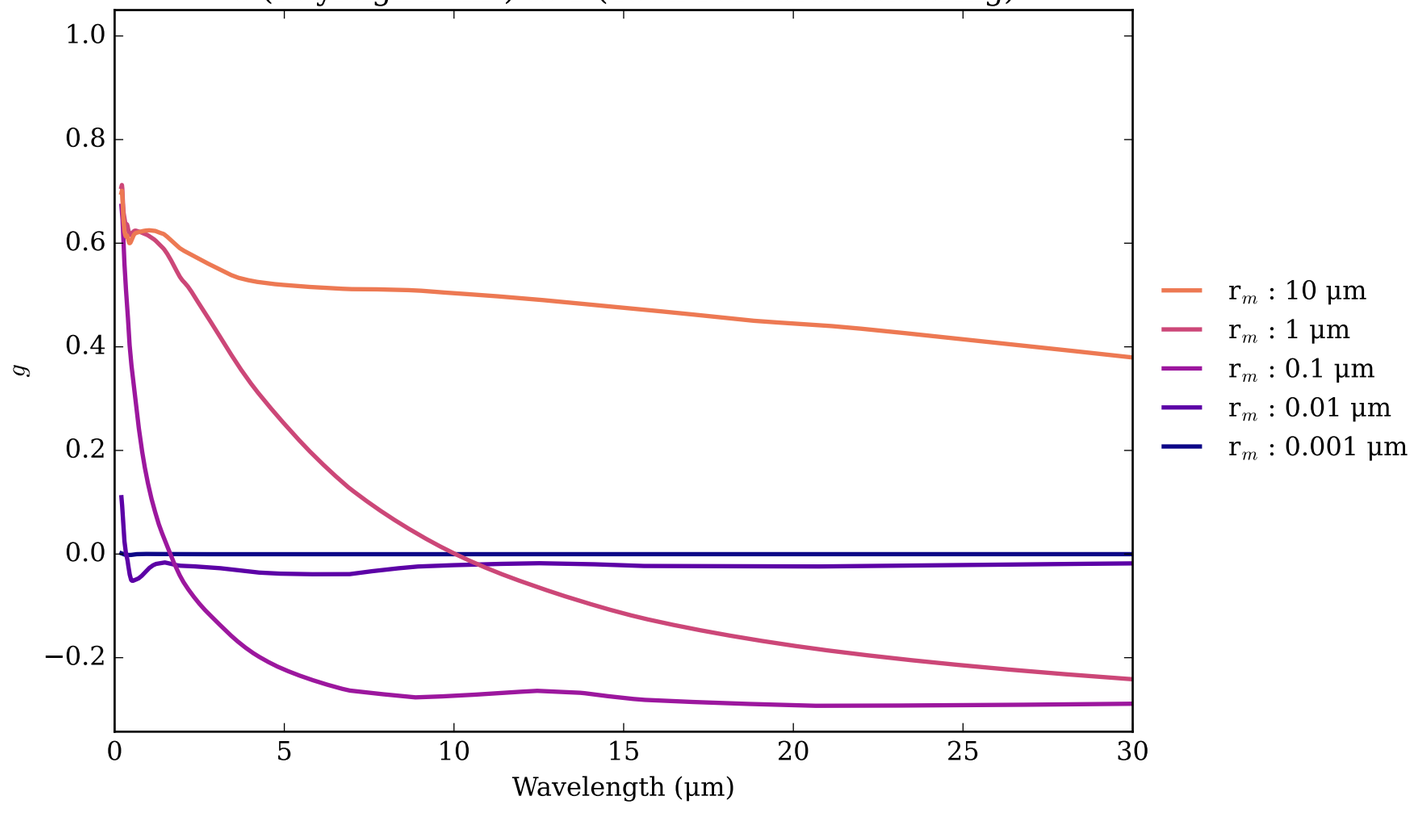
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



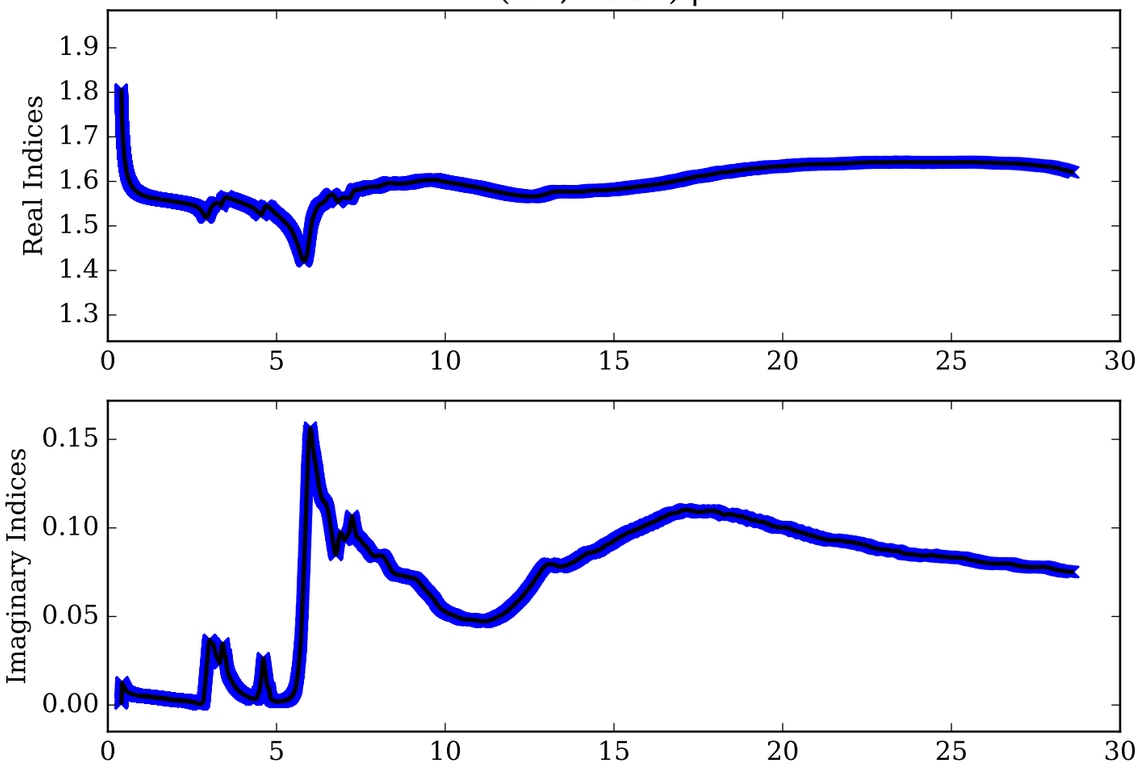
Cr Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Cr Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

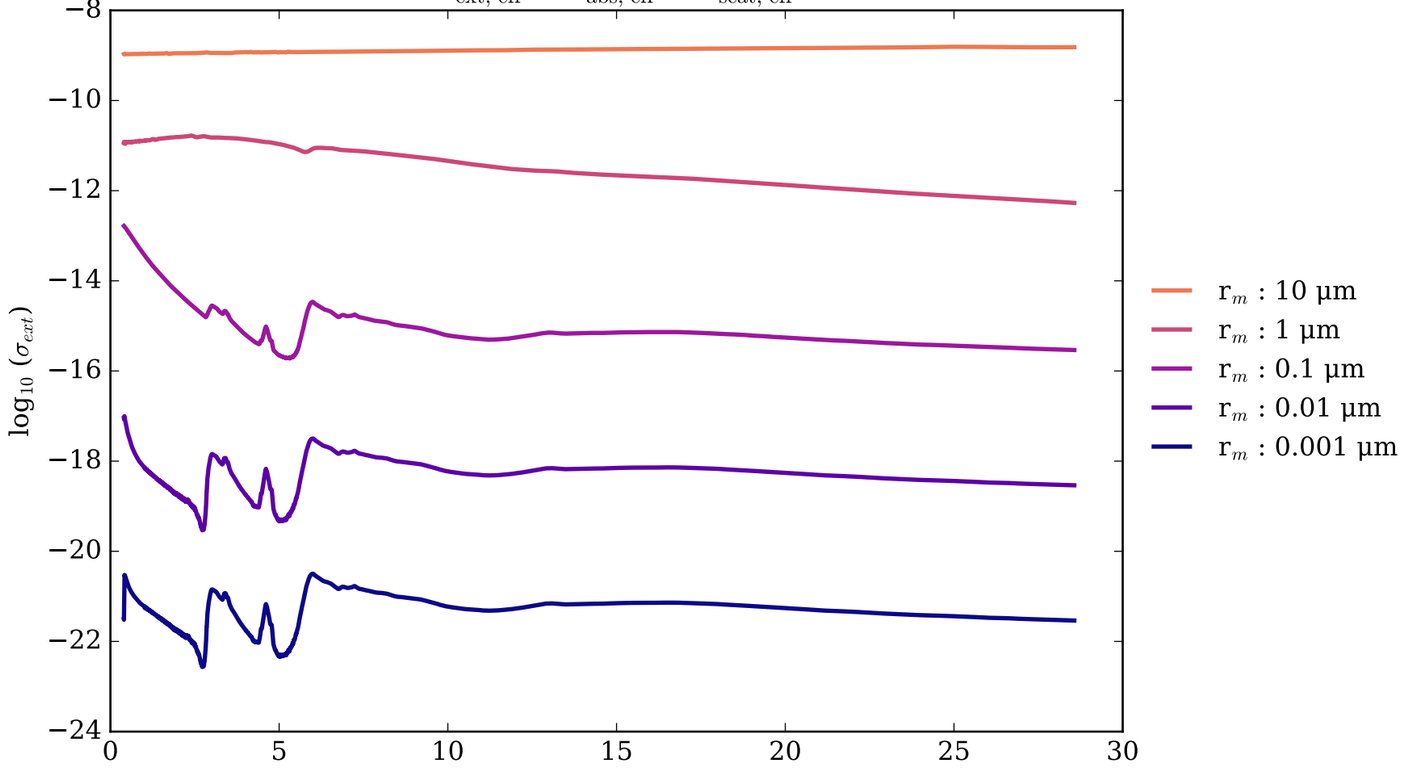


Refractive Indices for ExoHaze
(0.4, 28.57) μm

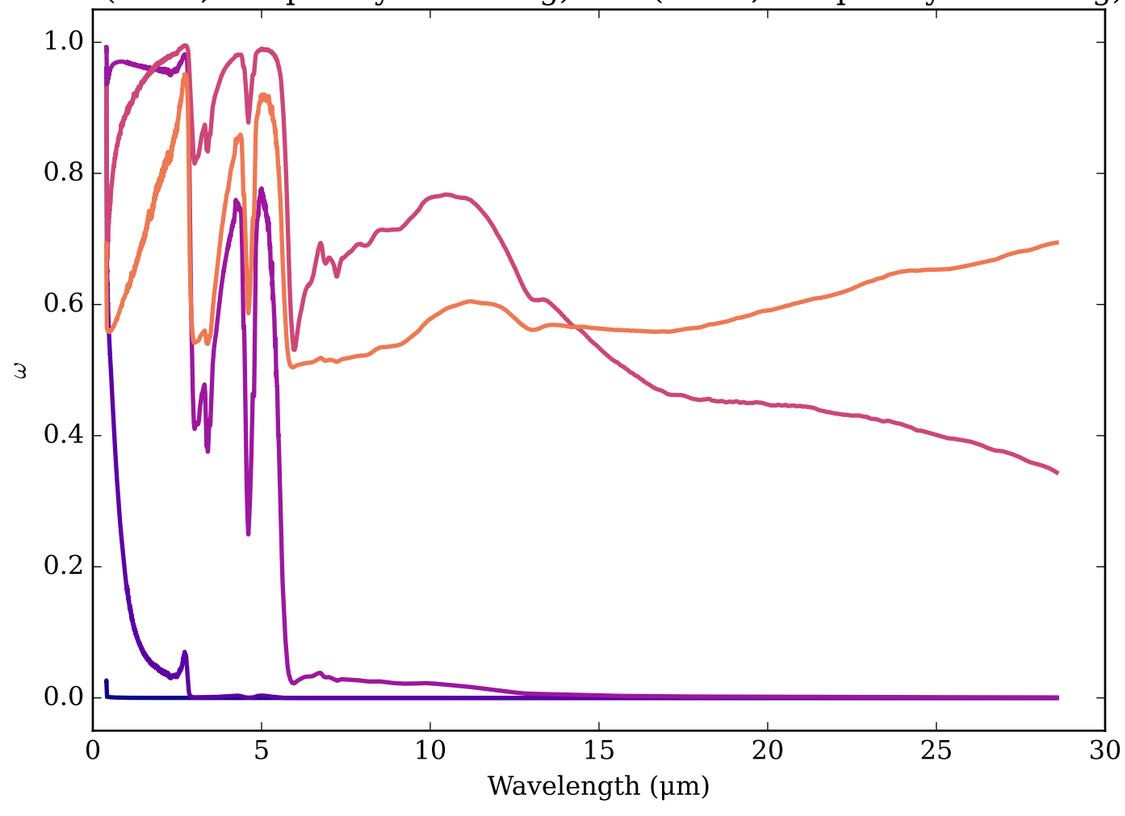


ExoHaze_1000xSolar_300K Effective Extinction Cross Section

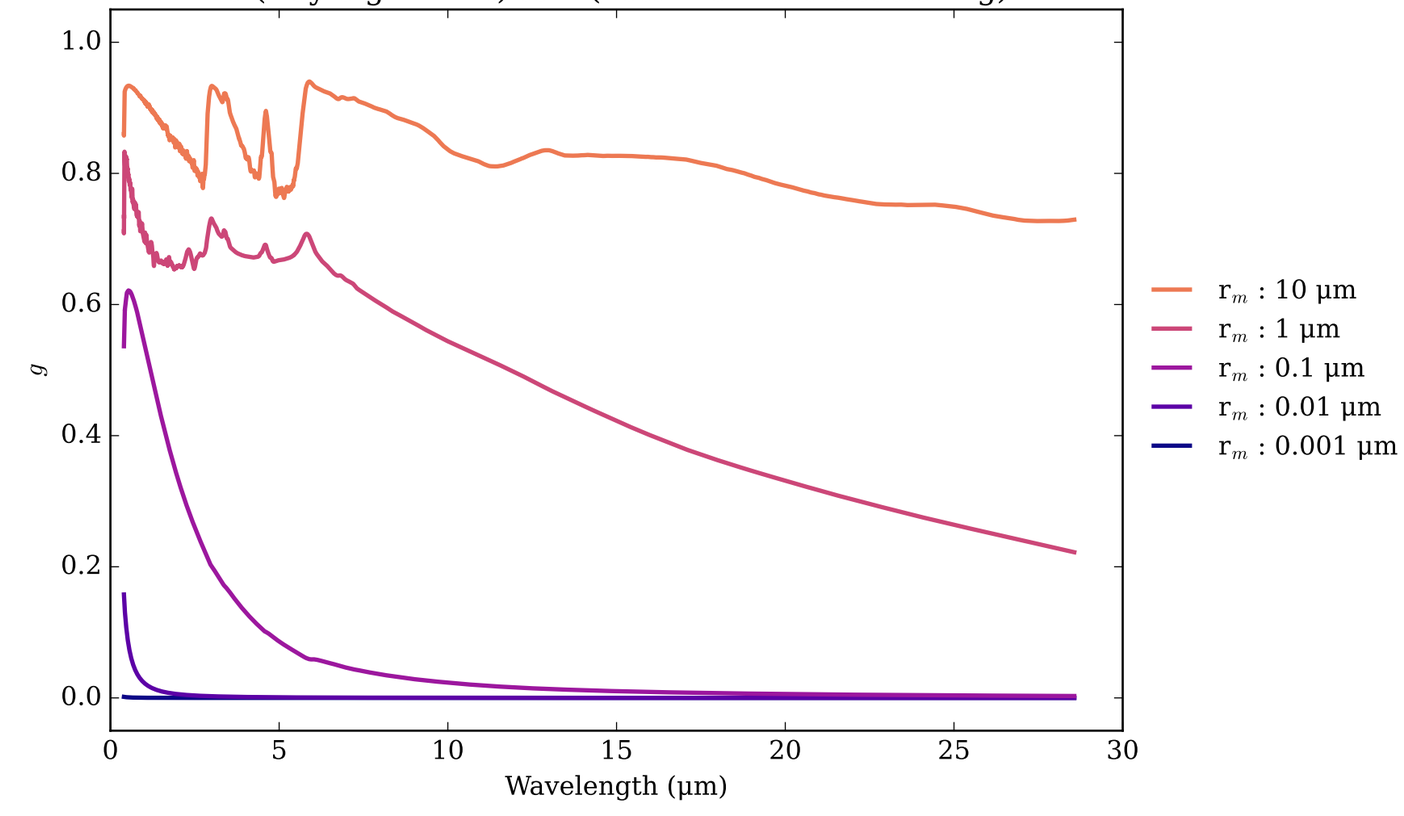
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



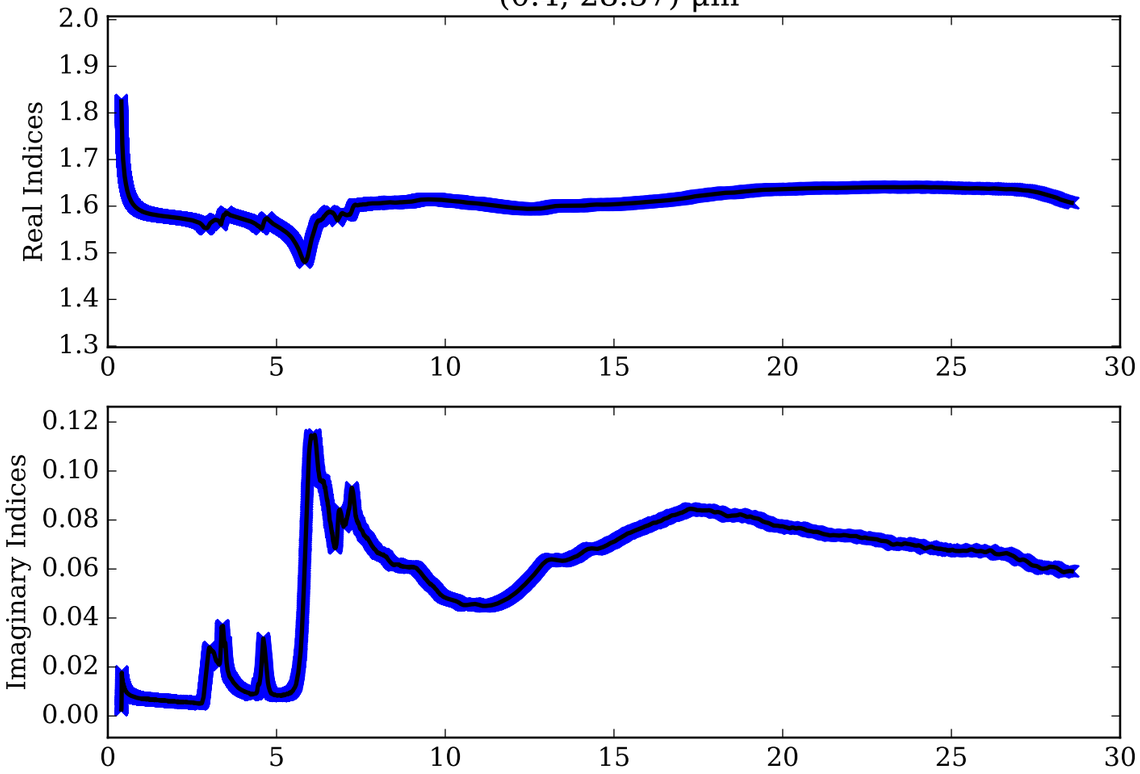
ExoHaze_1000xSolar_300K Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



ExoHaze_1000xSolar_300K Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

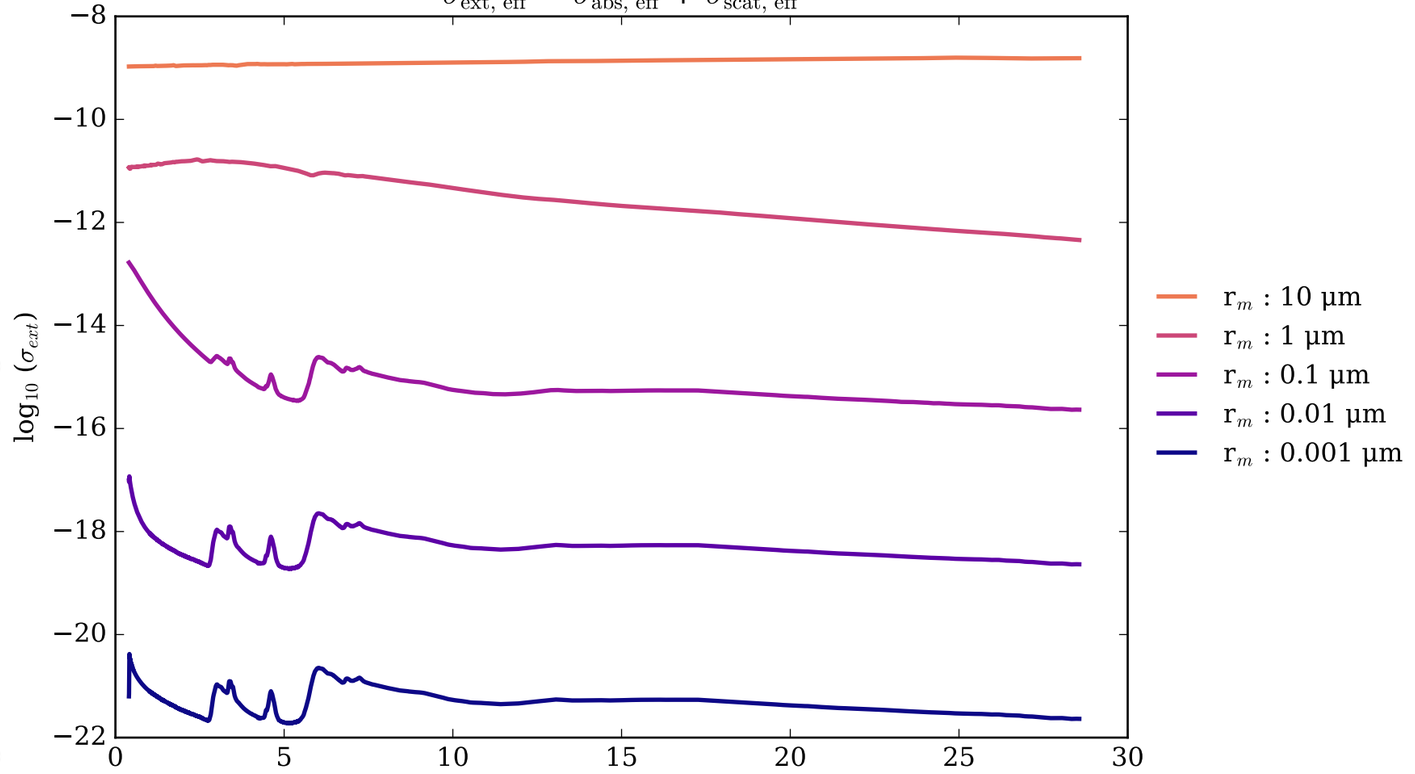


Refractive Indices for ExoHaze
(0.4, 28.57) μm

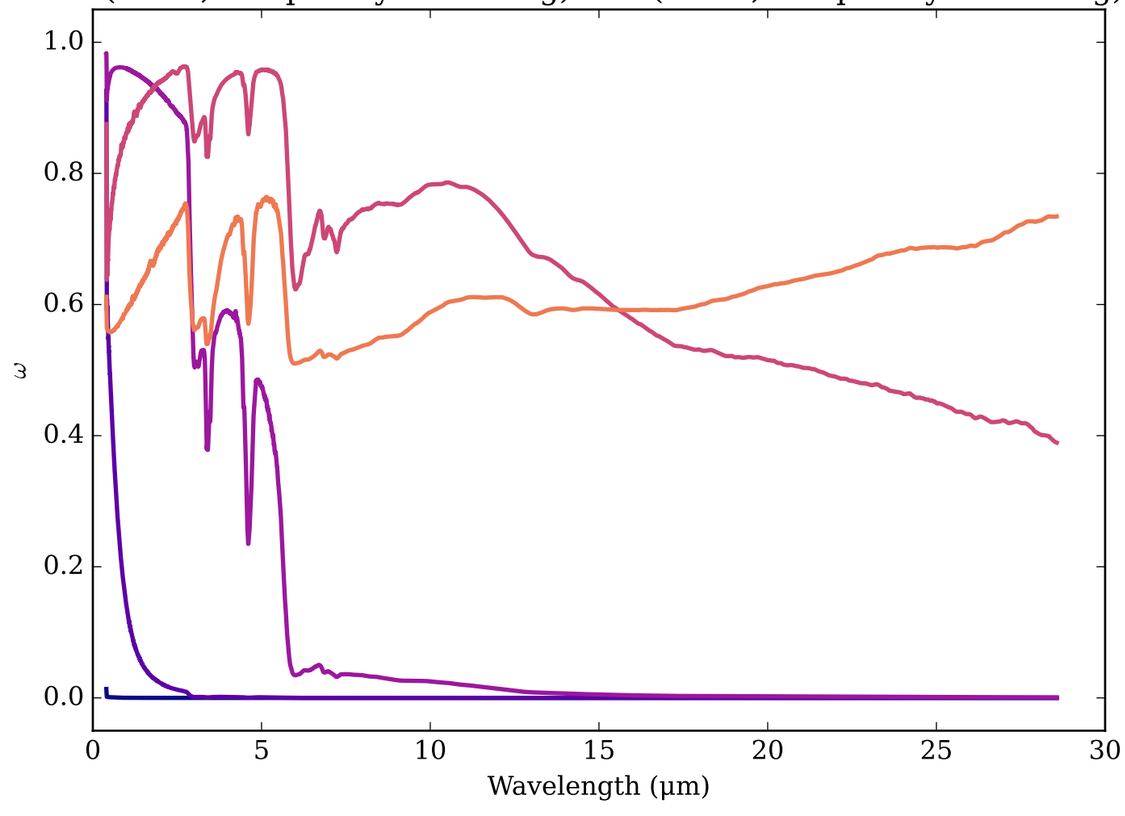


ExoHaze_1000xSolar_400K Effective Extinction Cross Section

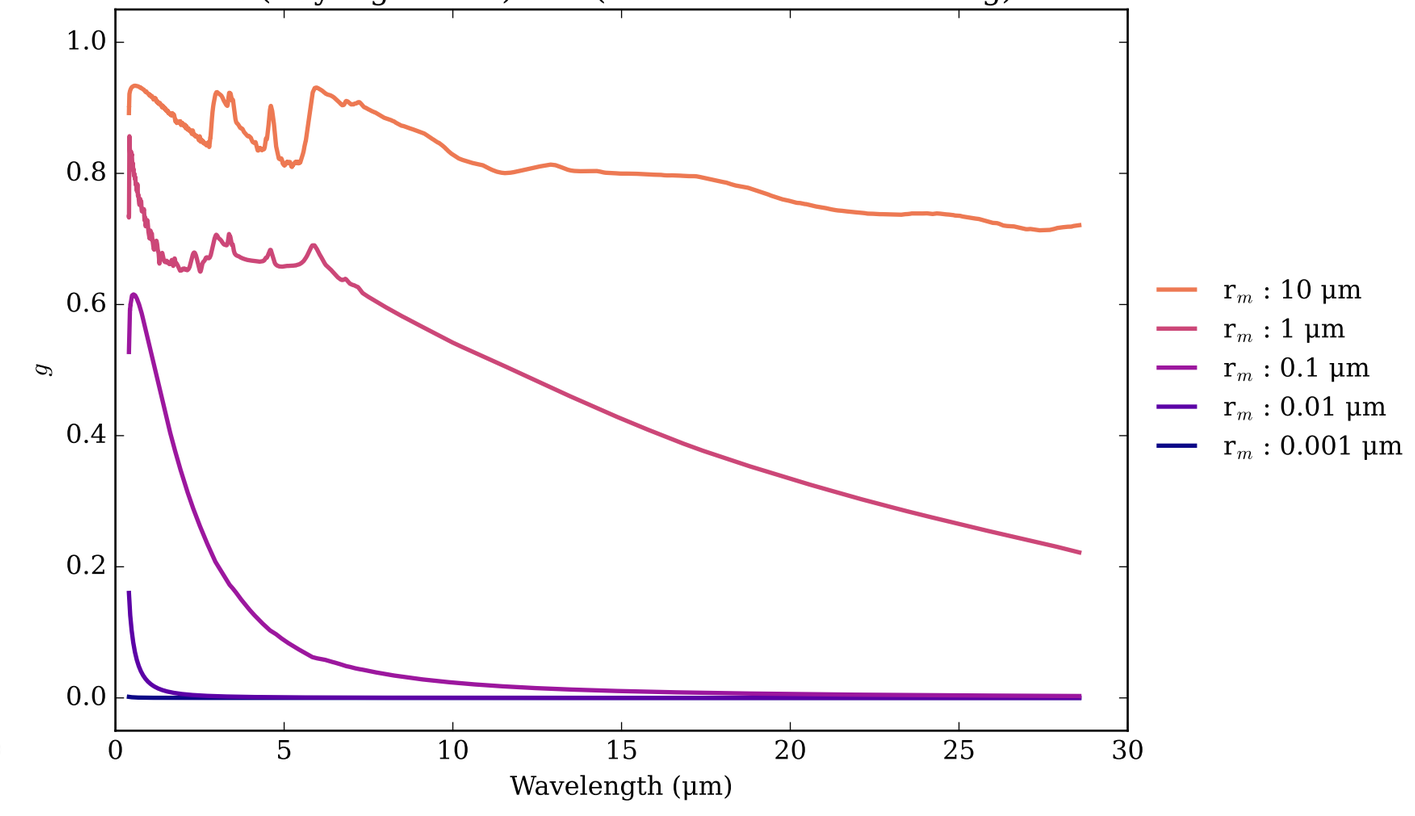
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



ExoHaze_1000xSolar_400K Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



ExoHaze_1000xSolar_400K Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



Refractive Indices for Fe
(0.2, 30.0) μm

Real Indices

Imaginary Indices

Fe Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

Fe Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

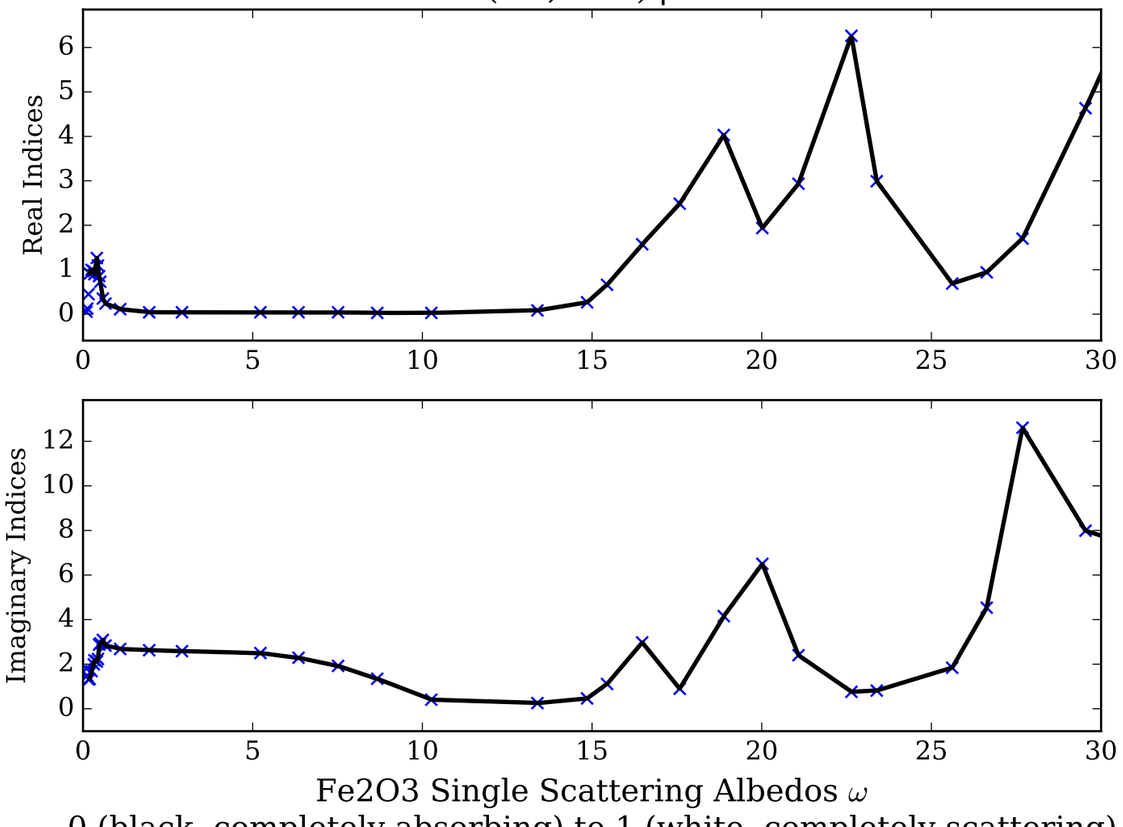
Wavelength (μm)

Fe Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

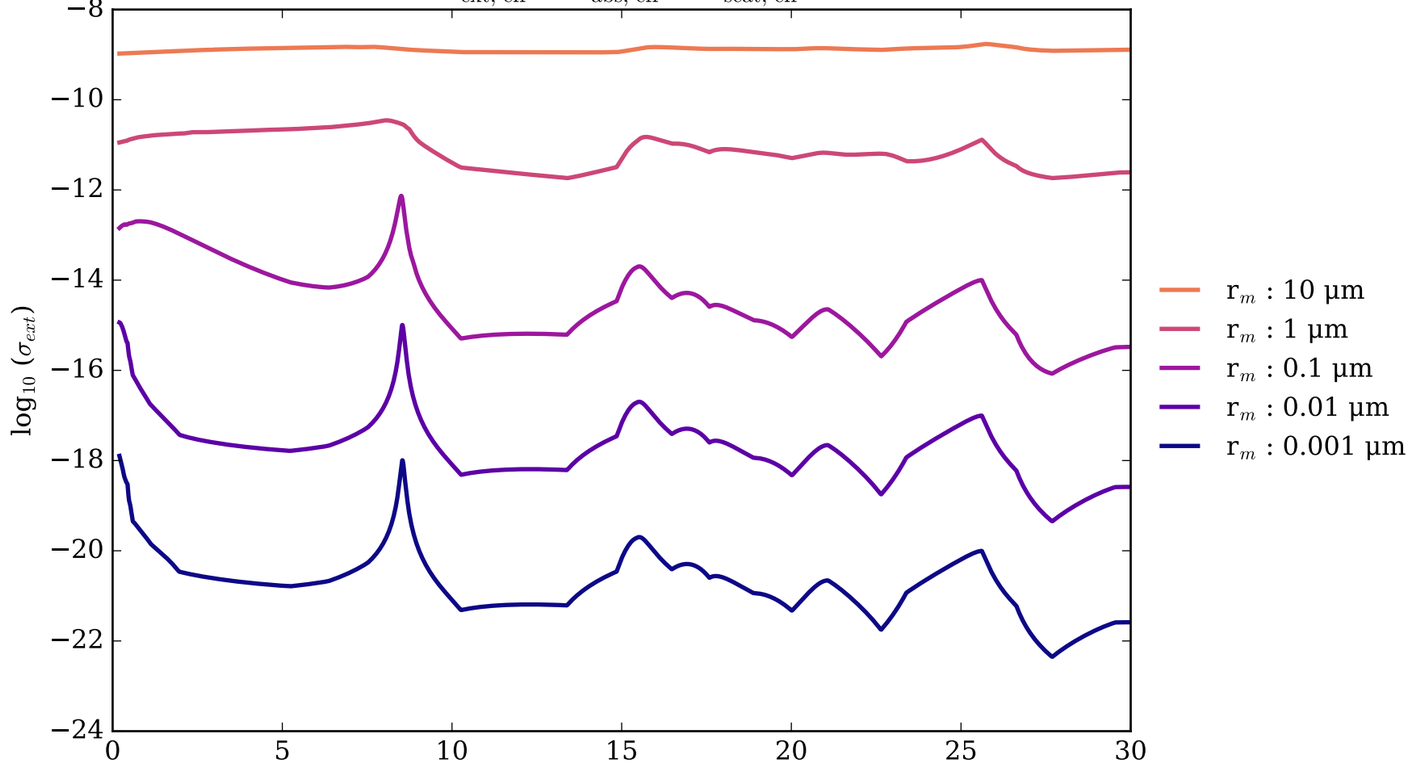
Wavelength (μm)

Refractive Indices for Fe2O3
(0.2, 30.0) μm

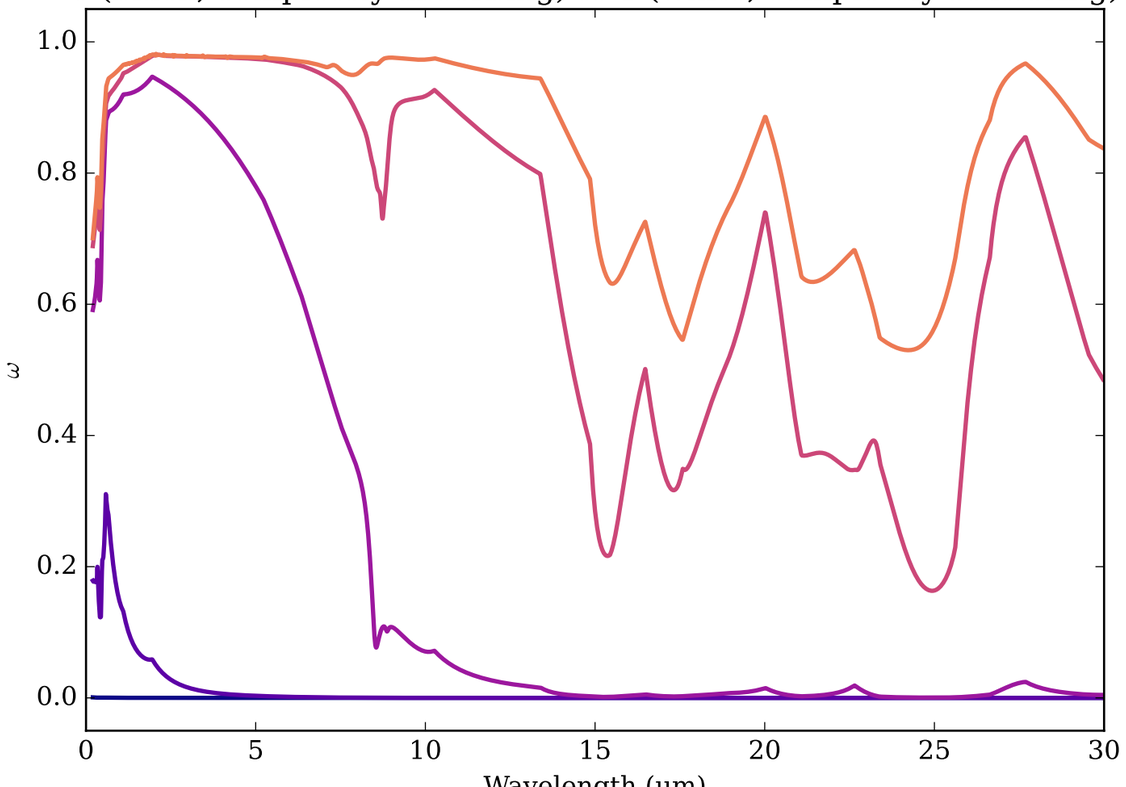


Fe2O3 Effective Extinction Cross Section

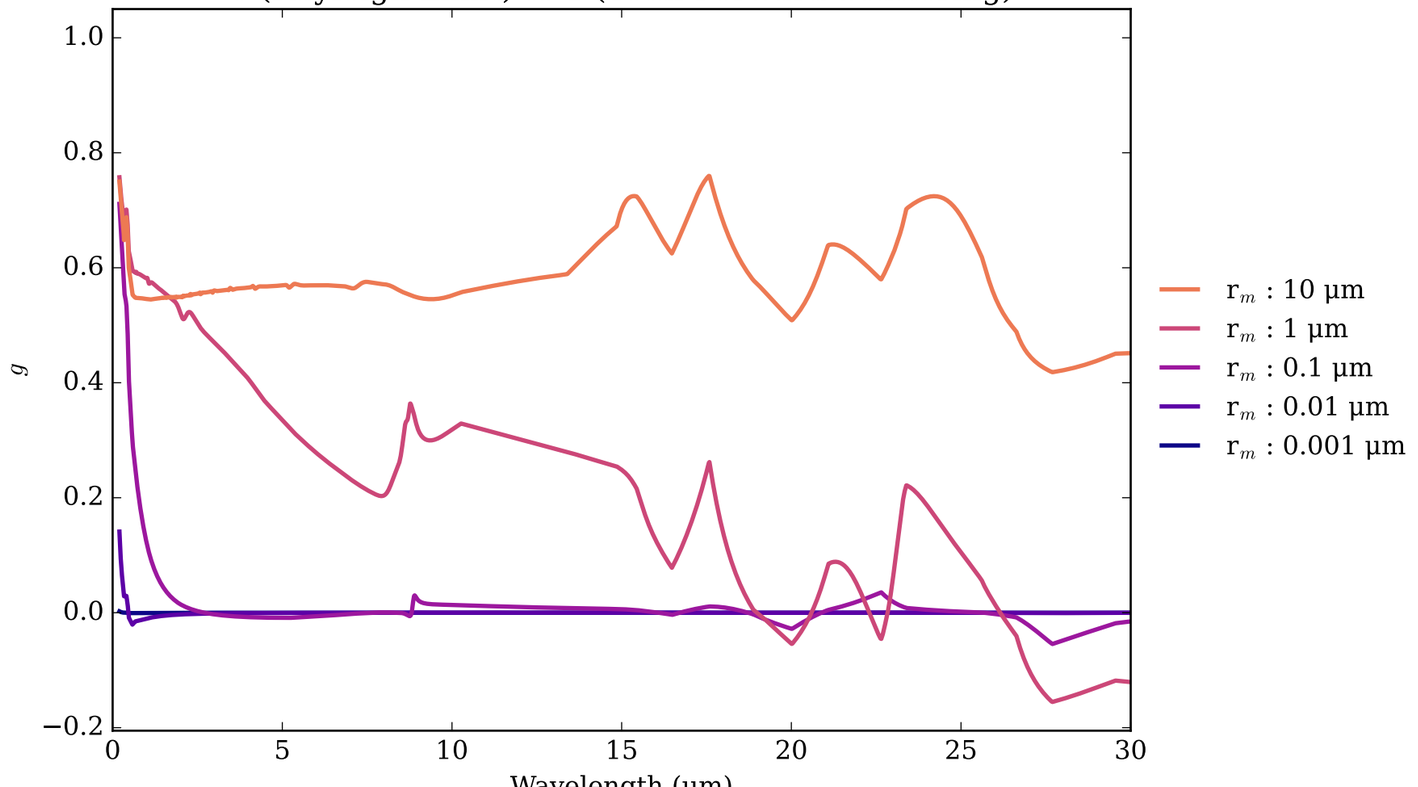
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



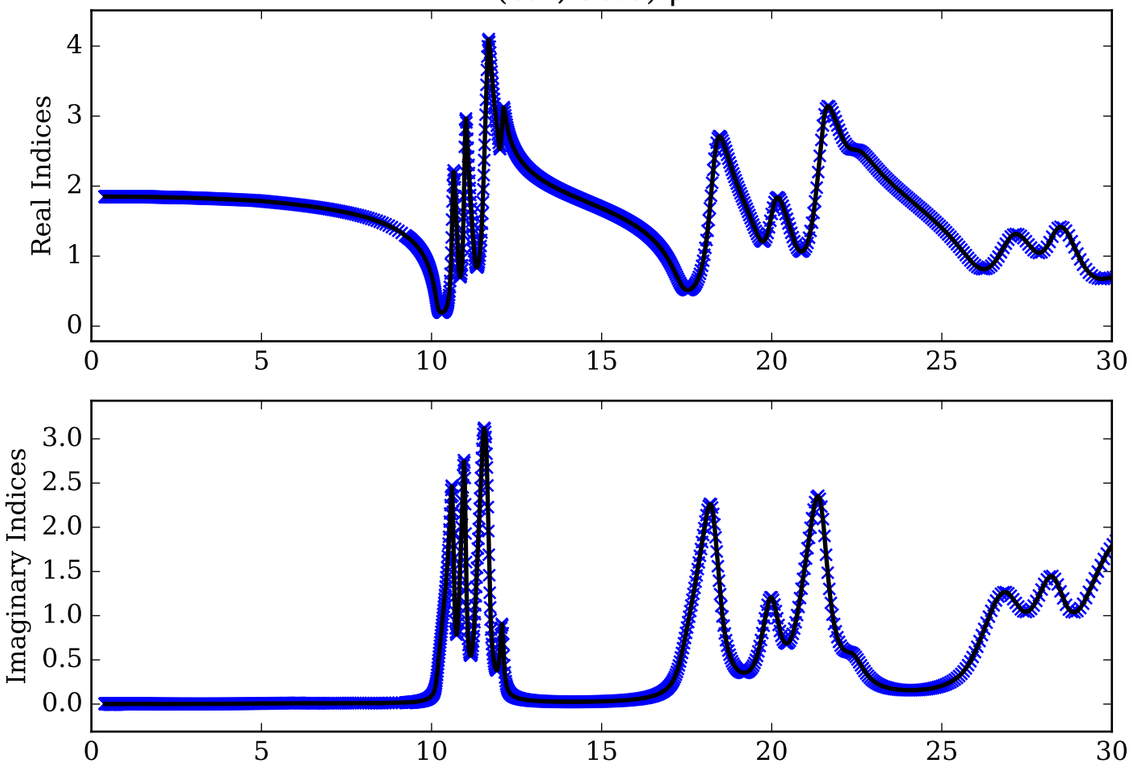
Fe2O3 Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Fe2O3 Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

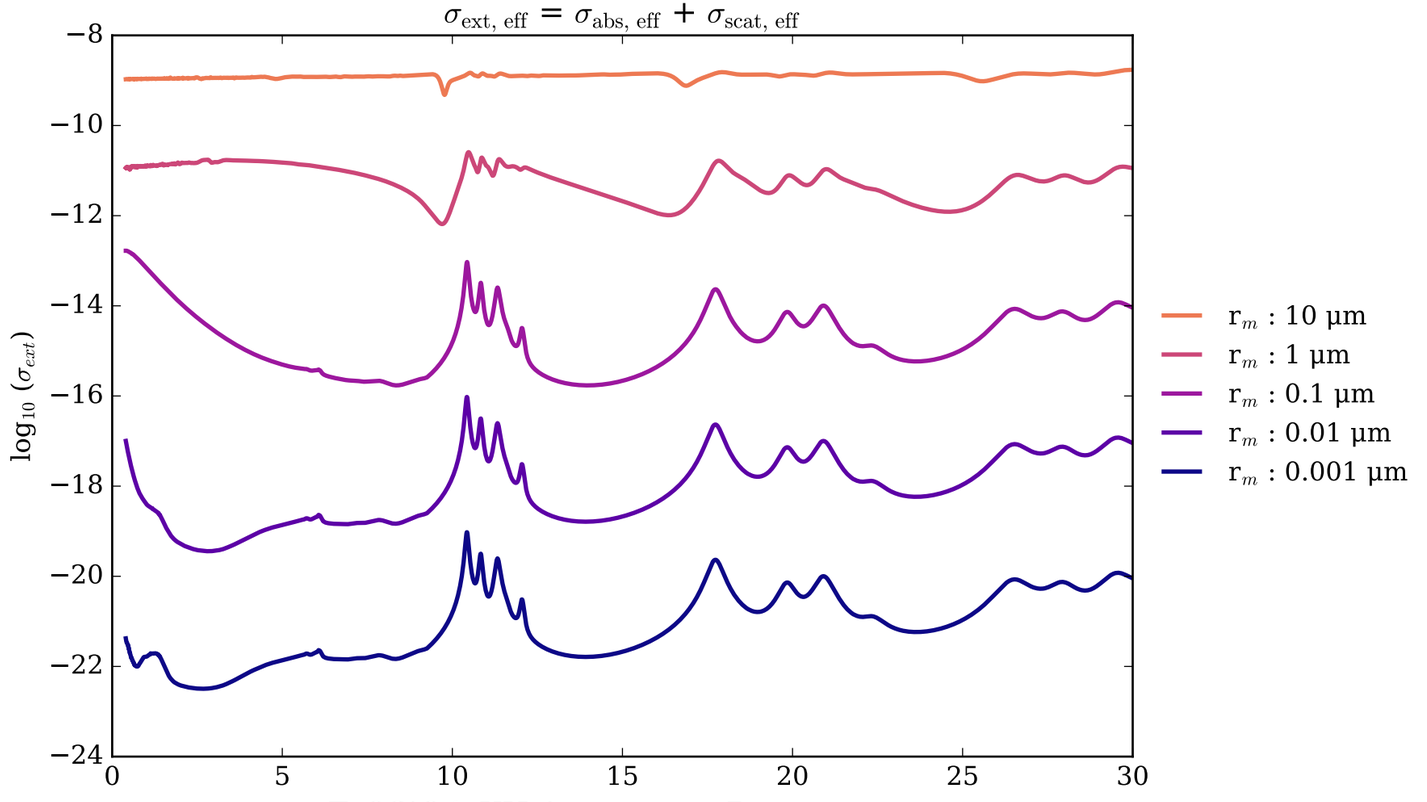


Refractive Indices for Fe2SiO4
(0.4, 30.0) μm

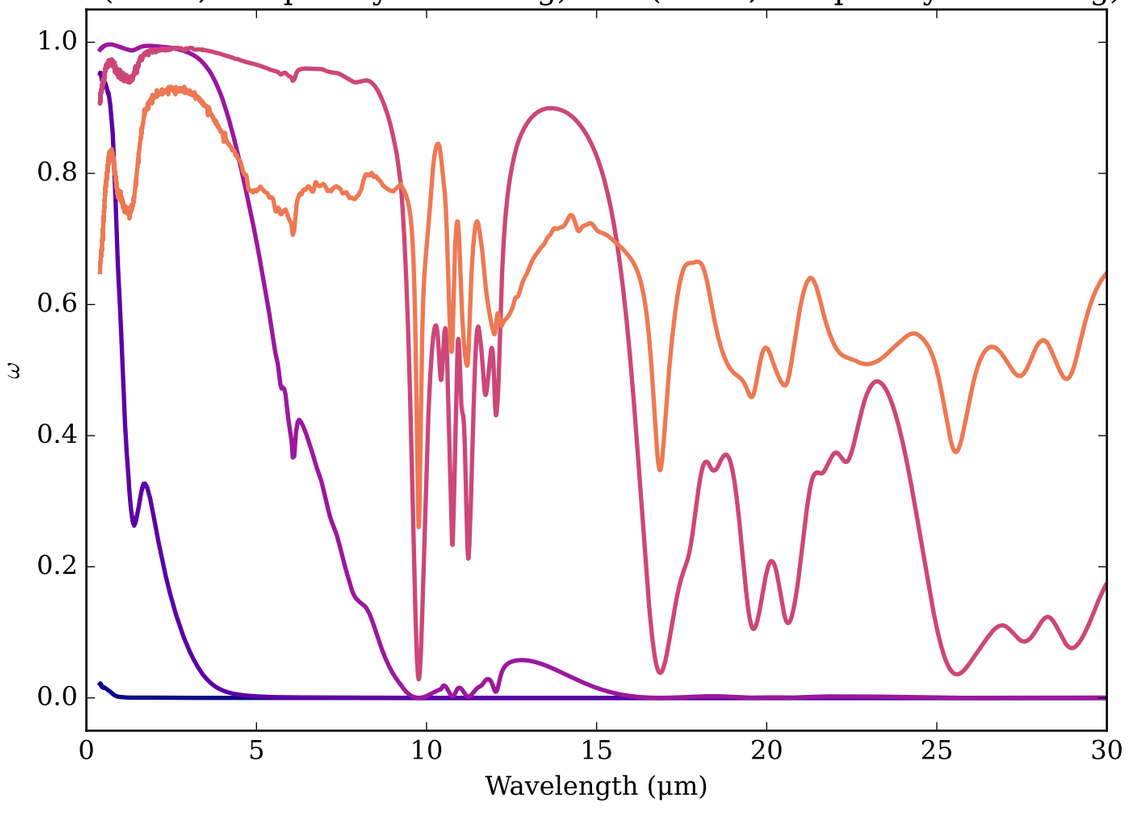


Fe2SiO4_KH Effective Extinction Cross Section

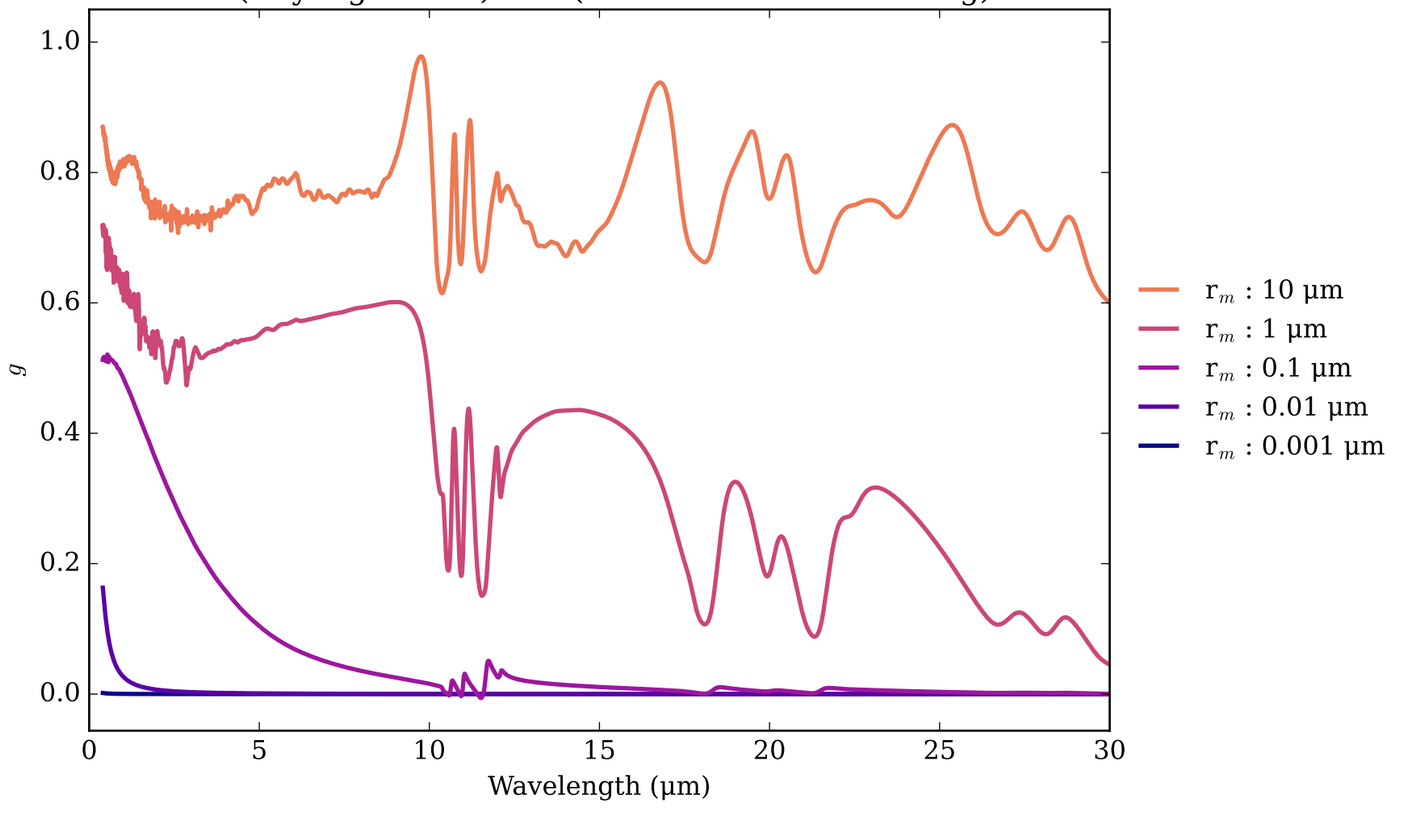
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



Fe2SiO4_KH Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Fe2SiO4_KH Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



Refractive Indices for FeO
(0.2, 30.0) μm

Real Indices

Imaginary Indices

FeO Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

FeO Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

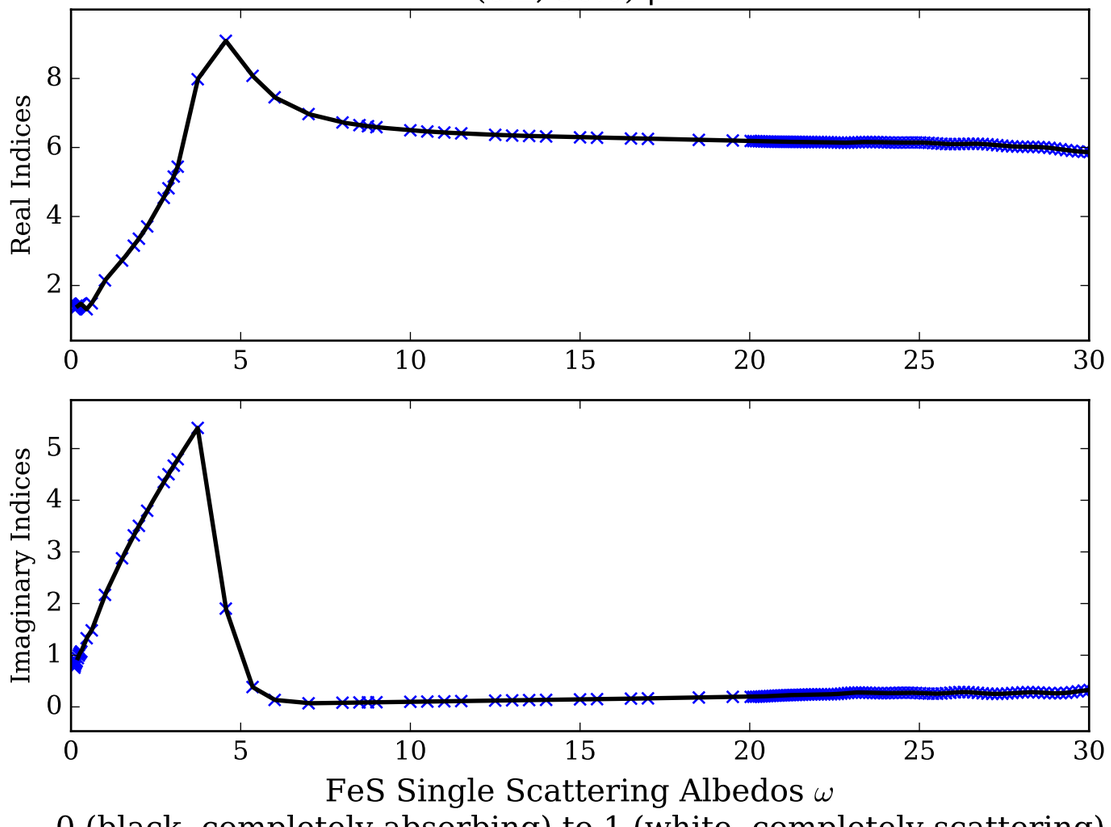
Wavelength (μm)

FeO Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

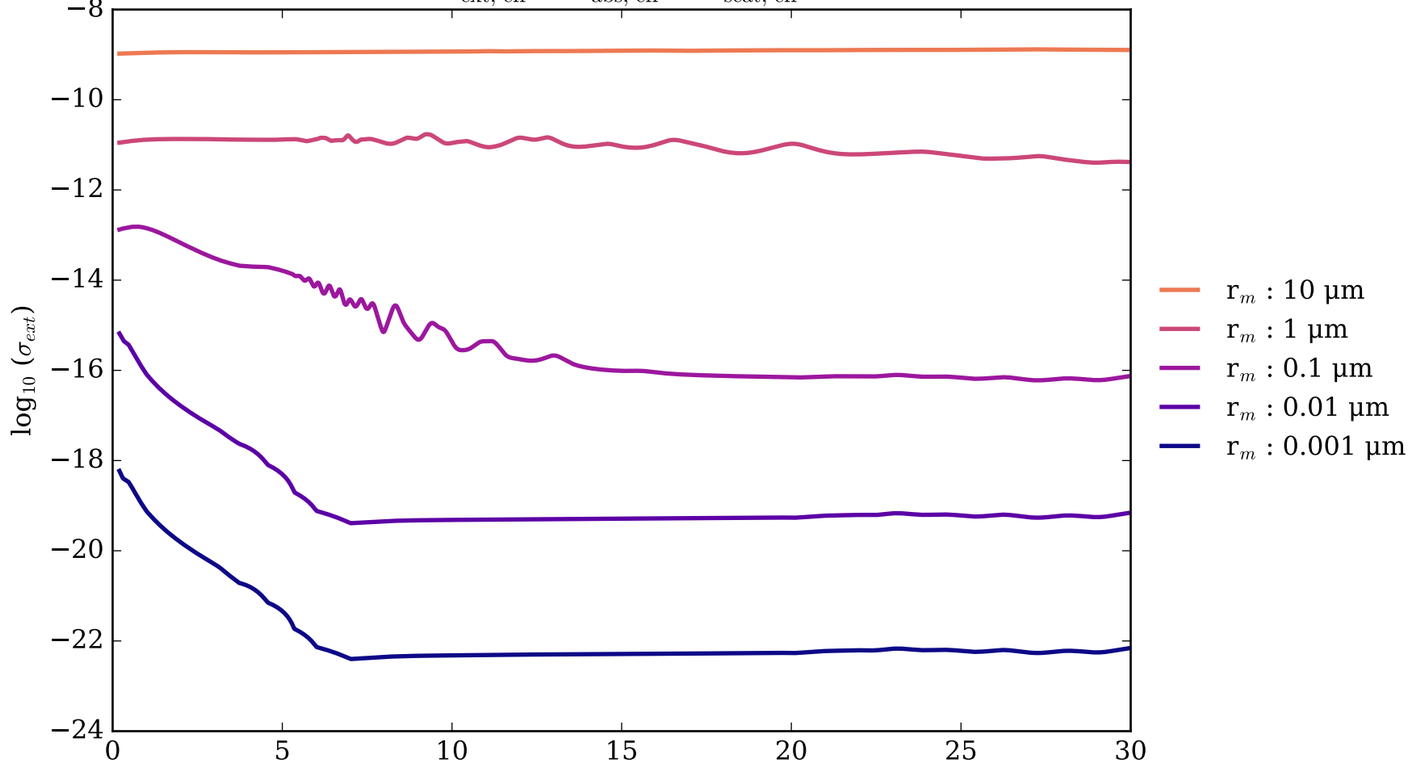
g

Wavelength (μm)

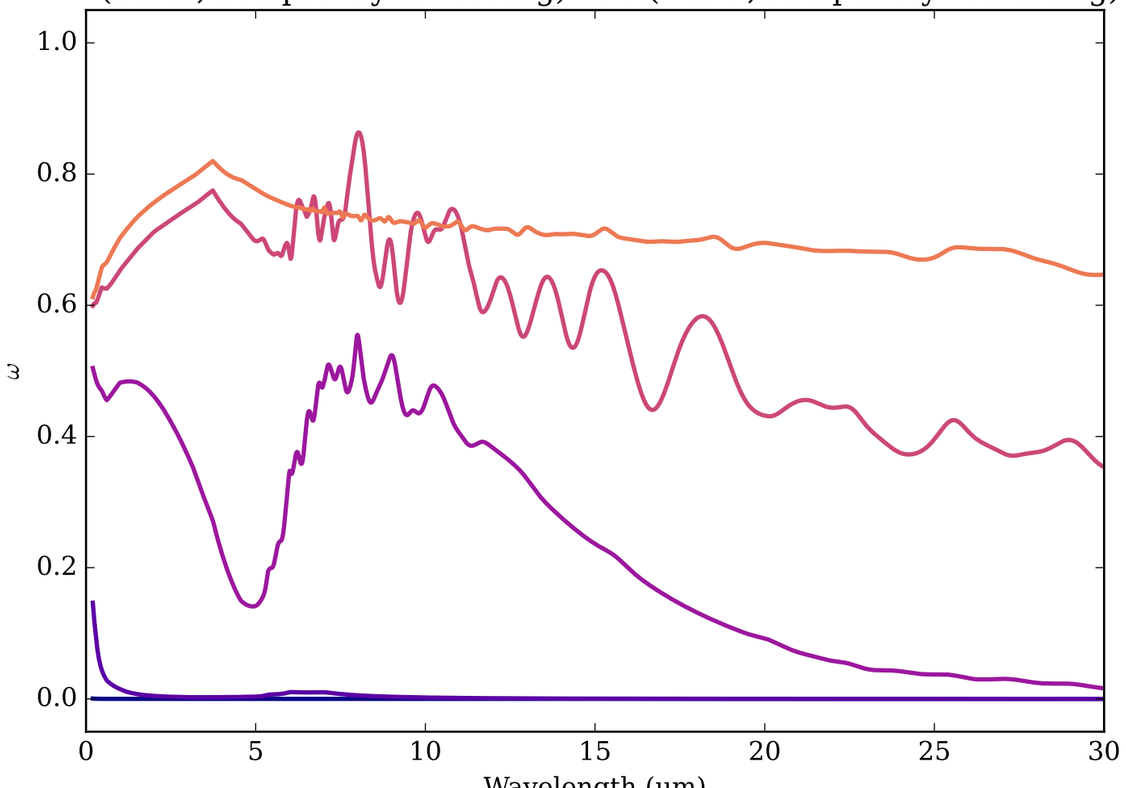
Refractive Indices for FeS
(0.2, 30.0) μm



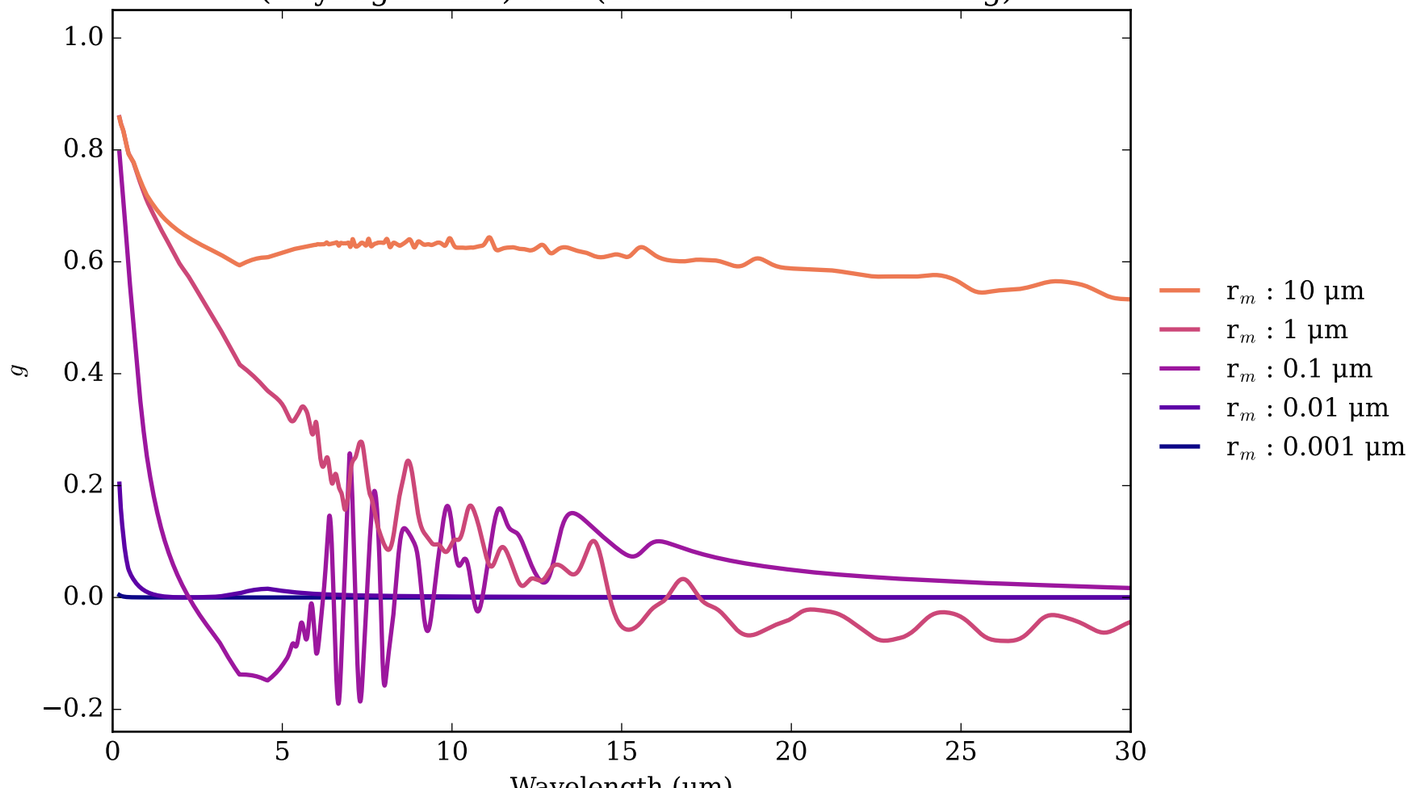
FeS Effective Extinction Cross Section
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



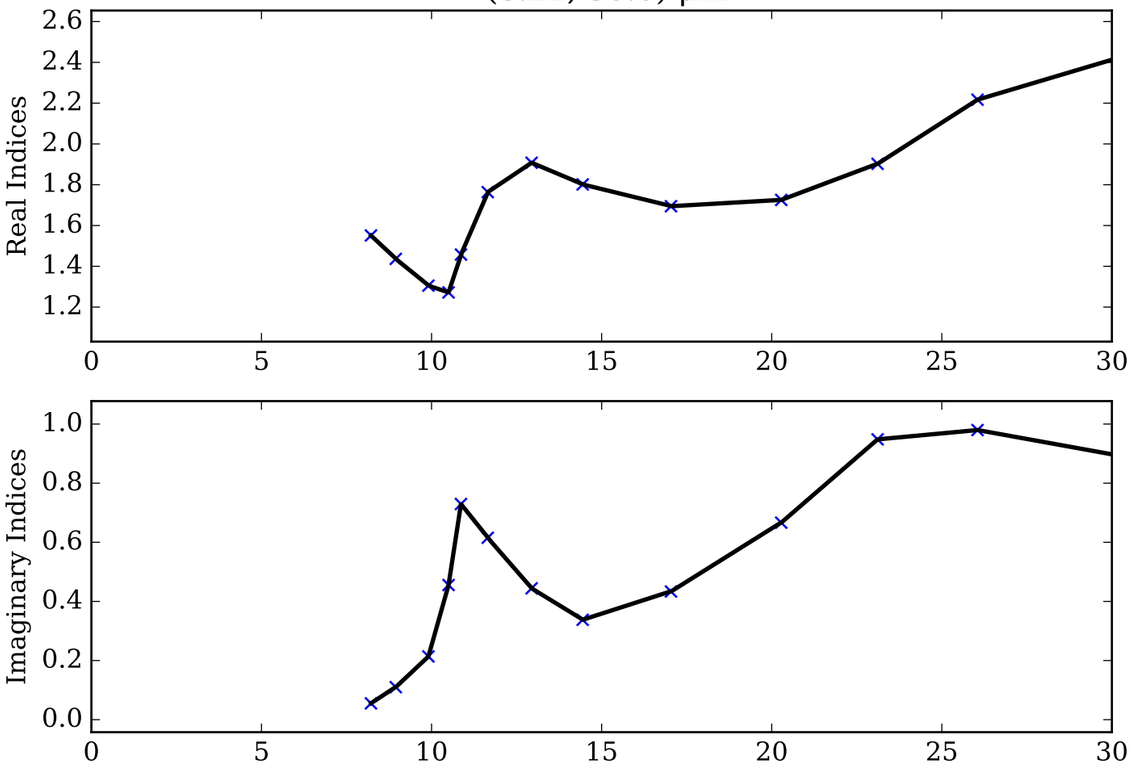
FeS Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



FeS Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

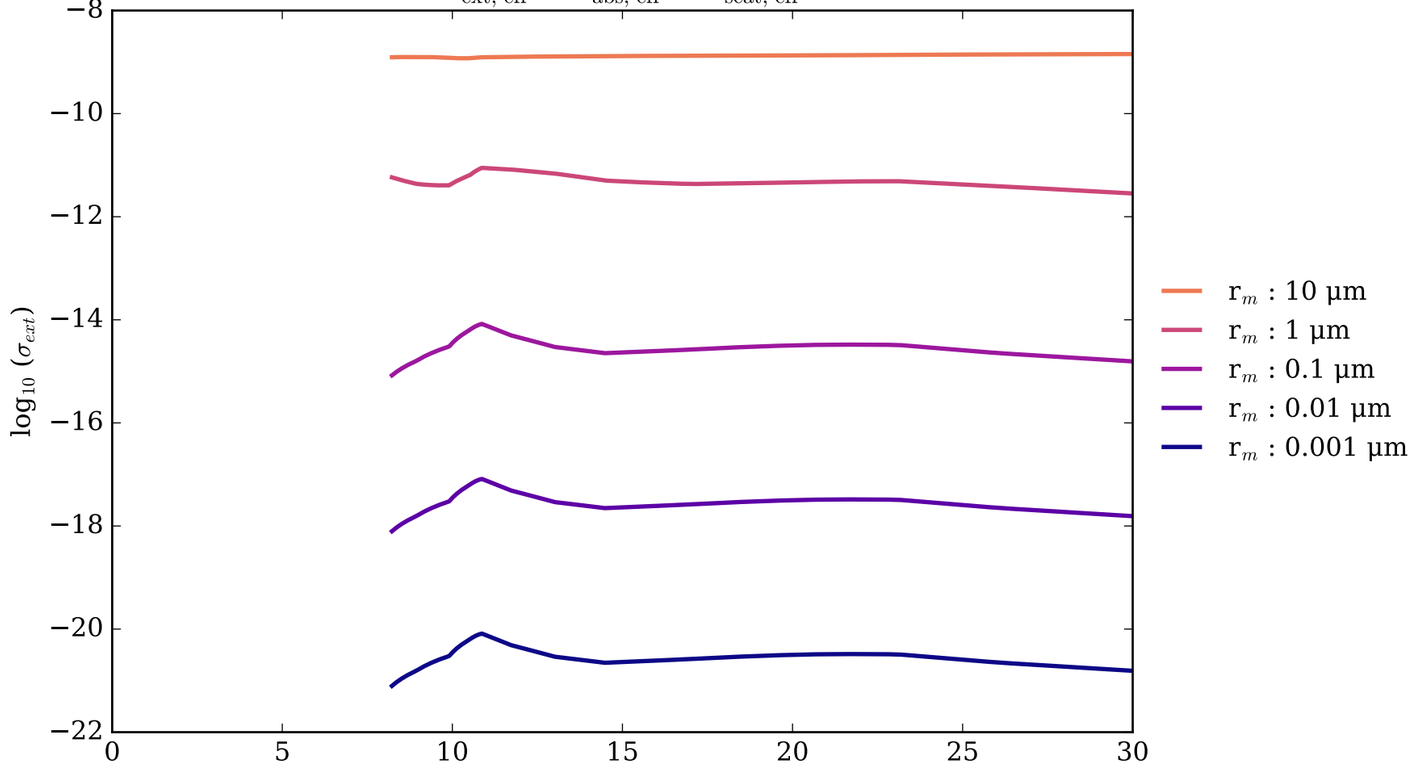


Refractive Indices for FeSiO3
(8.22, 30.0) μm

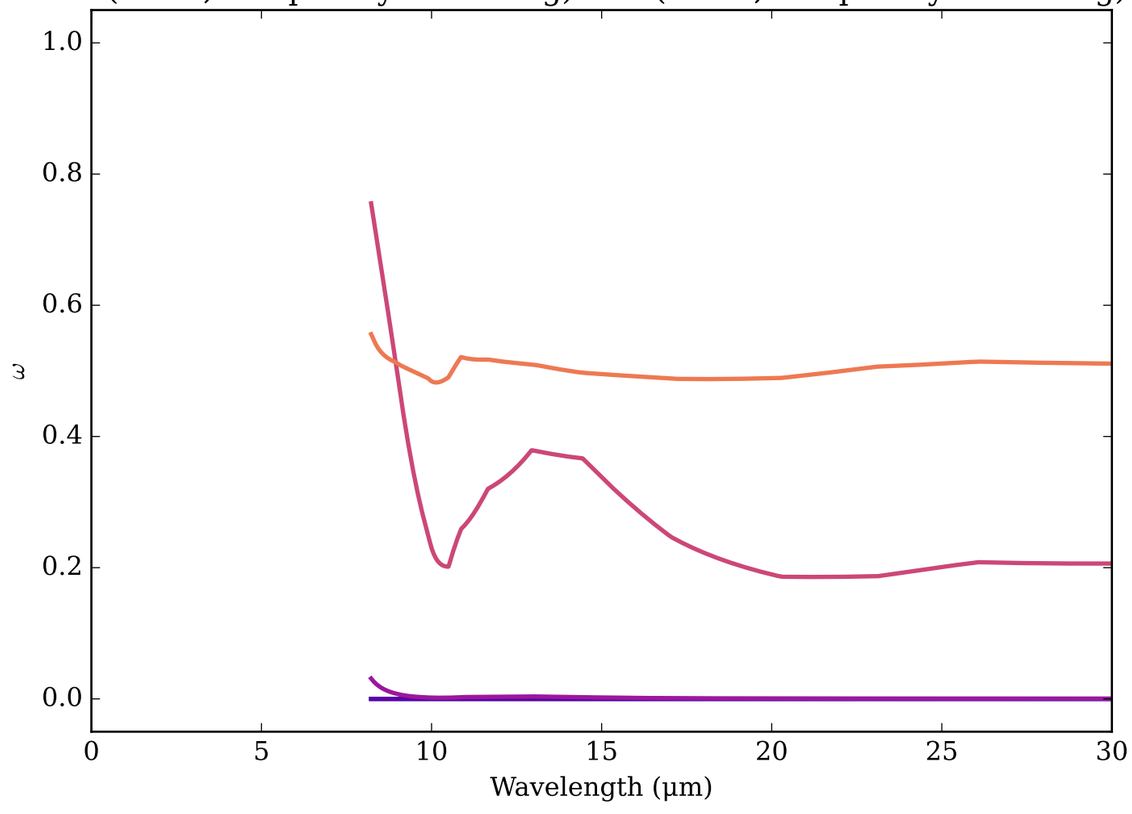


FeSiO3 Effective Extinction Cross Section

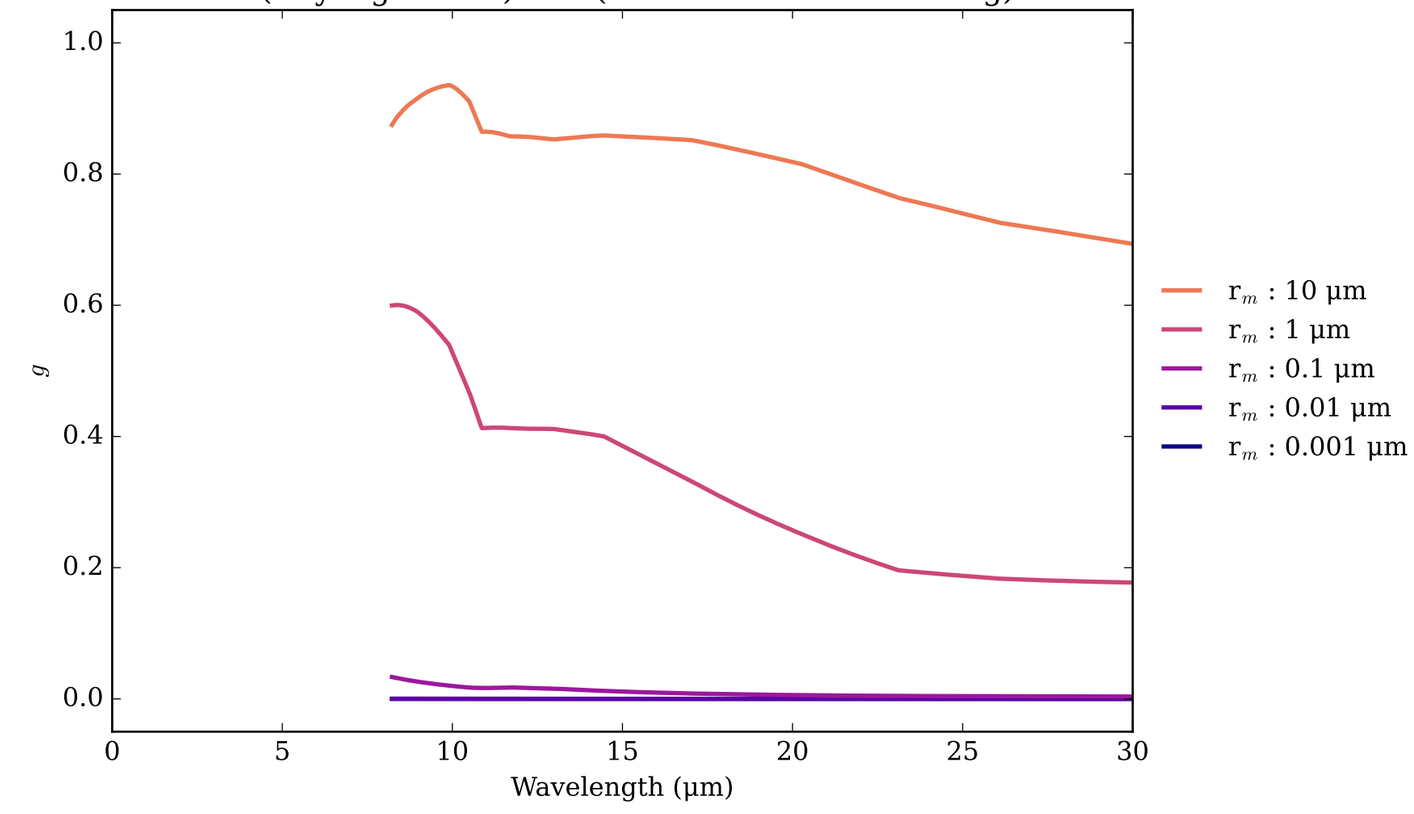
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



FeSiO3 Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



FeSiO3 Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



Refractive Indices for H2O
(0.2, 30.0) μm

Real Indices

Imaginary Indices

H2O Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

H2O Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

H2O Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

Refractive Indices for H2O
(0.2, 30.0) μm

Real Indices

Imaginary Indices

H2O_ice Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

H2O_ice Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

H2O_ice Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

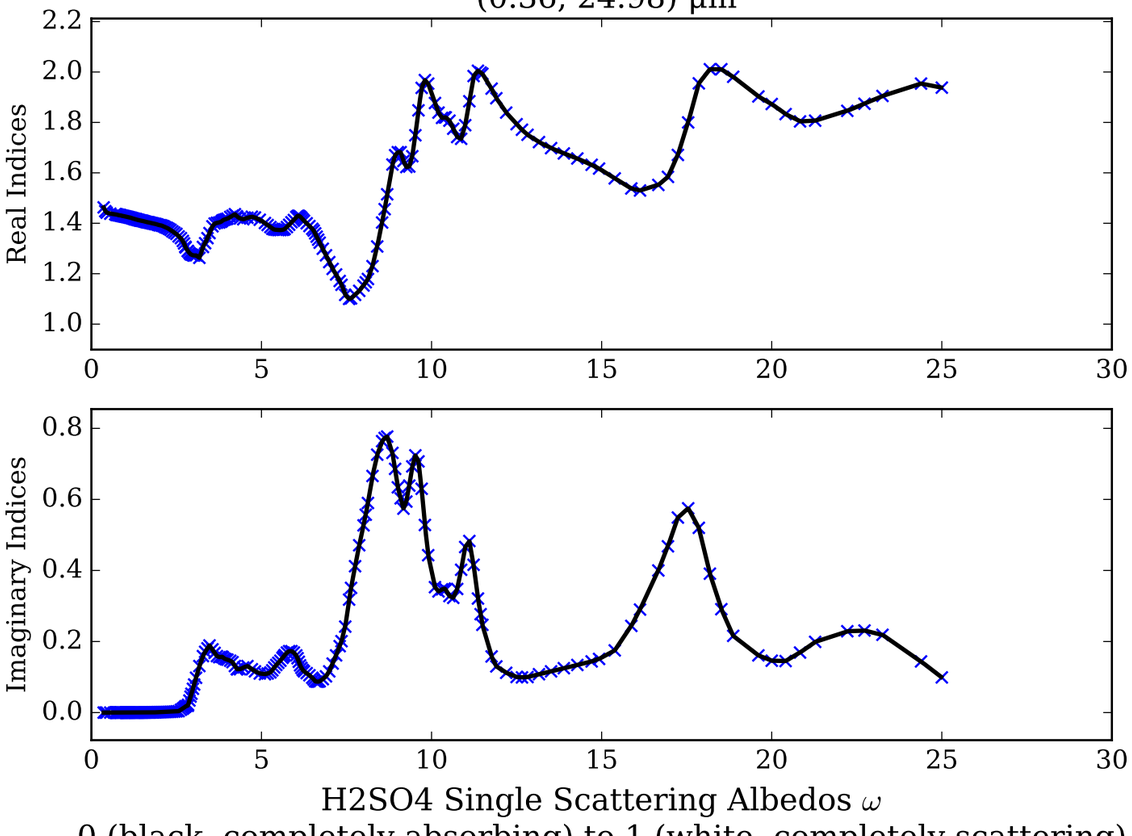
g

Wavelength (μm)

Wavelength (μm)

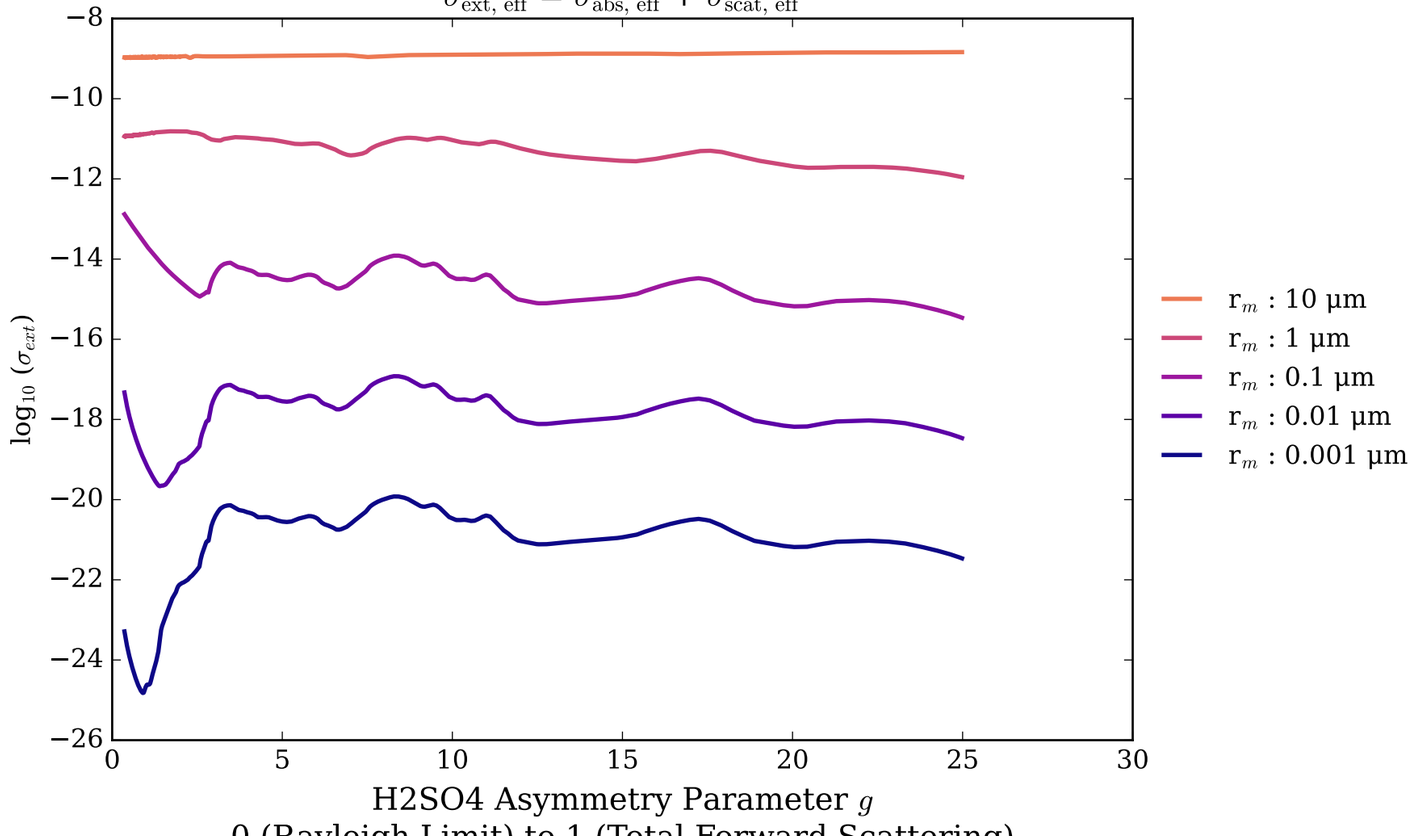
r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

Refractive Indices for H2SO4
(0.36, 24.98) μm

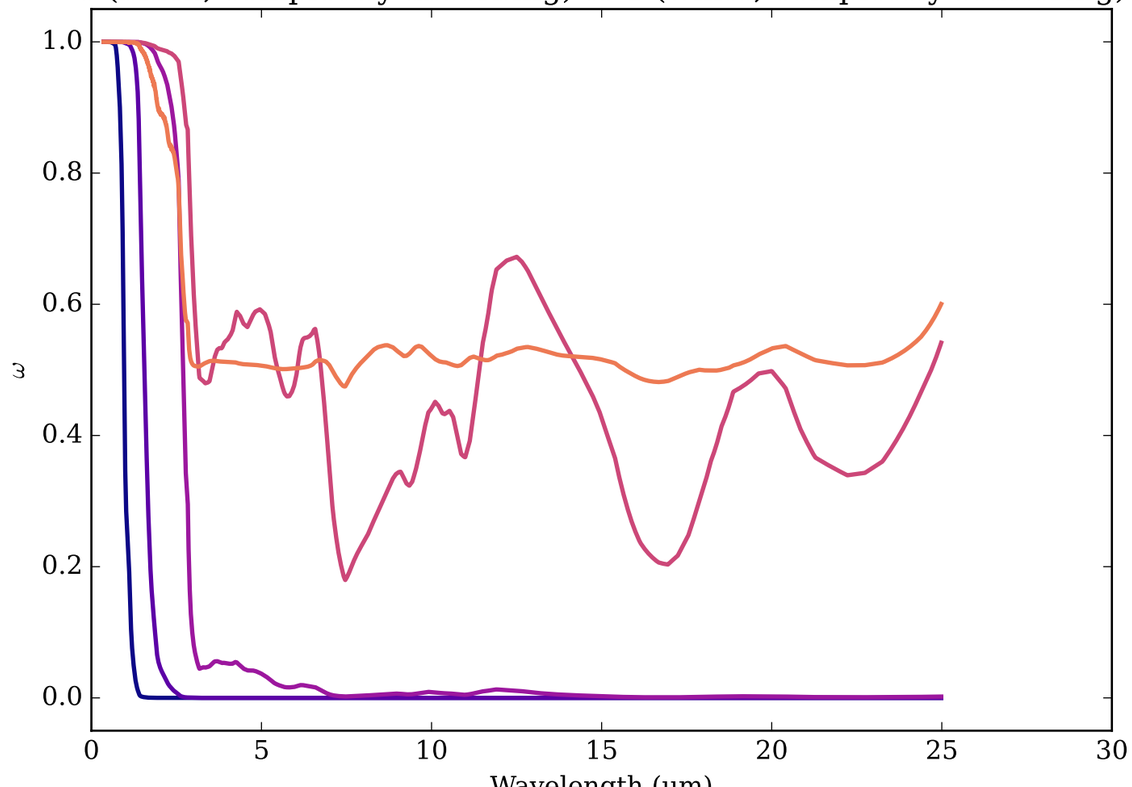


H2SO4 Effective Extinction Cross Section

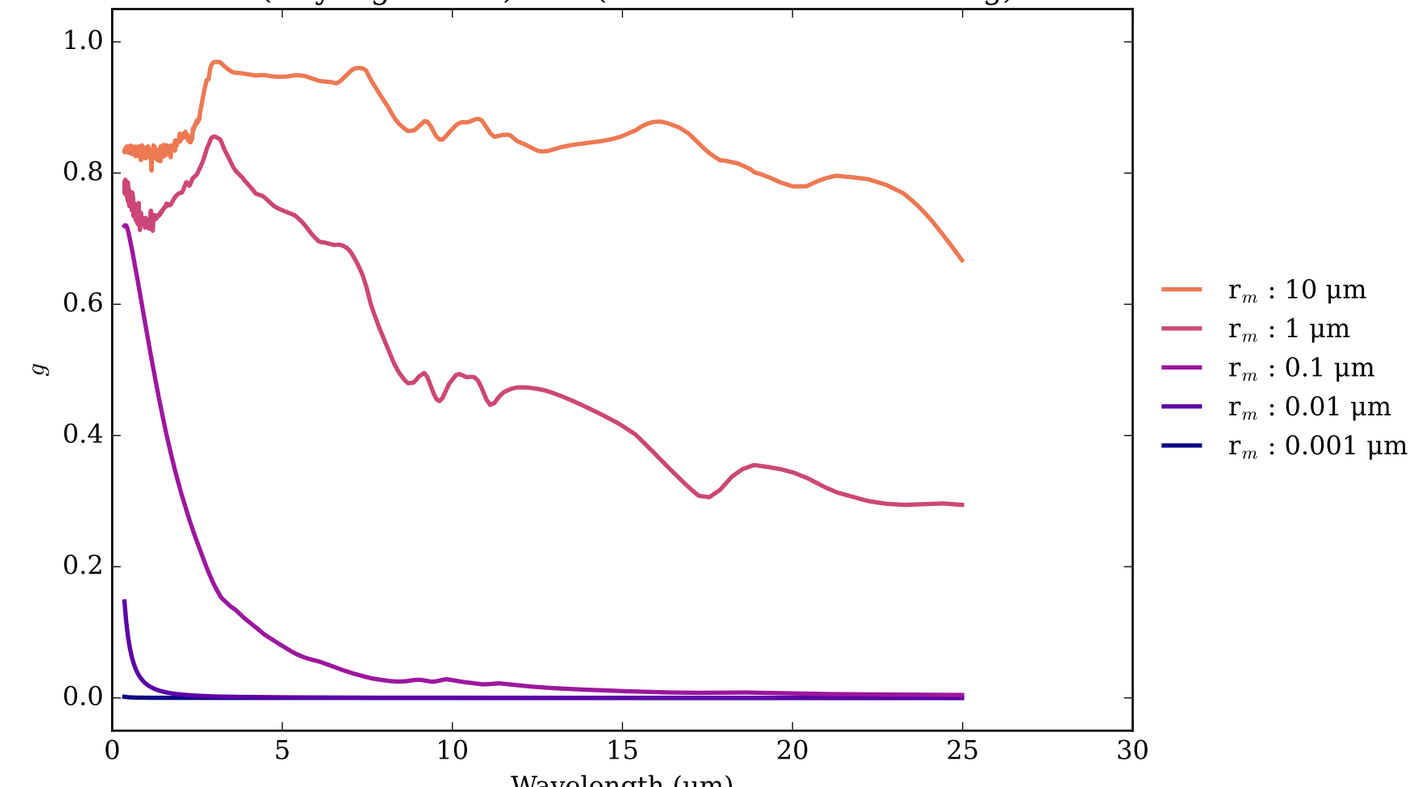
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



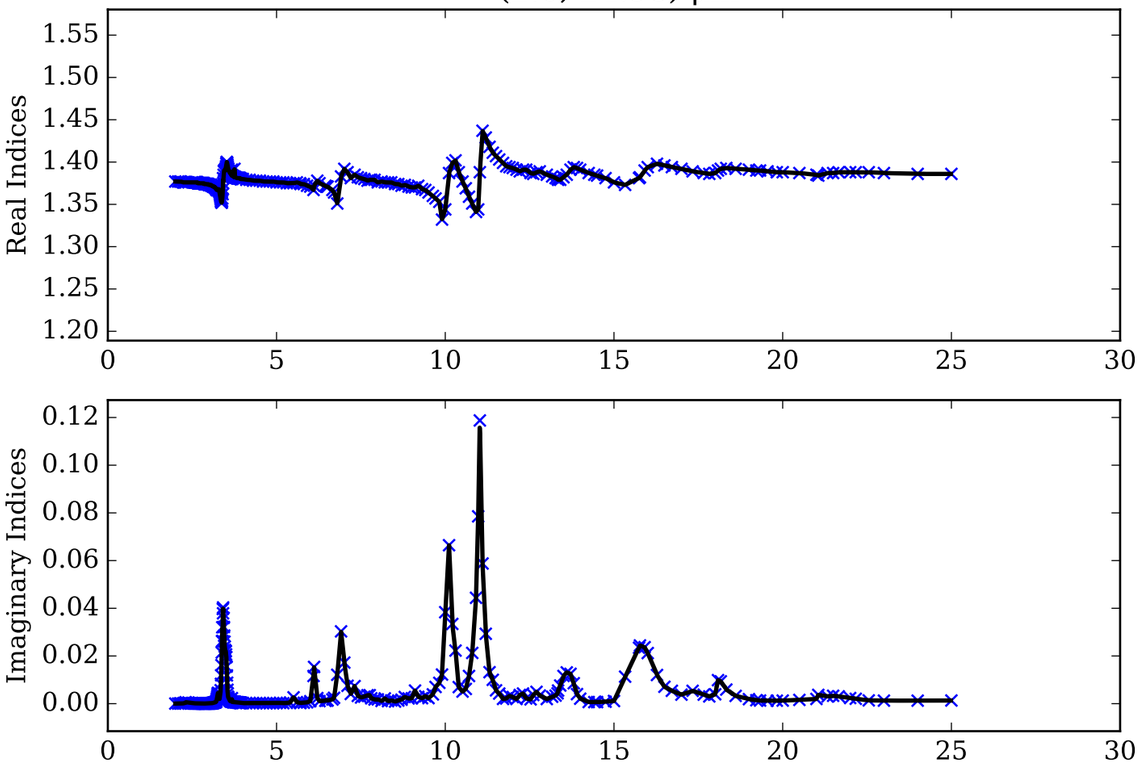
H2SO4 Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



H2SO4 Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

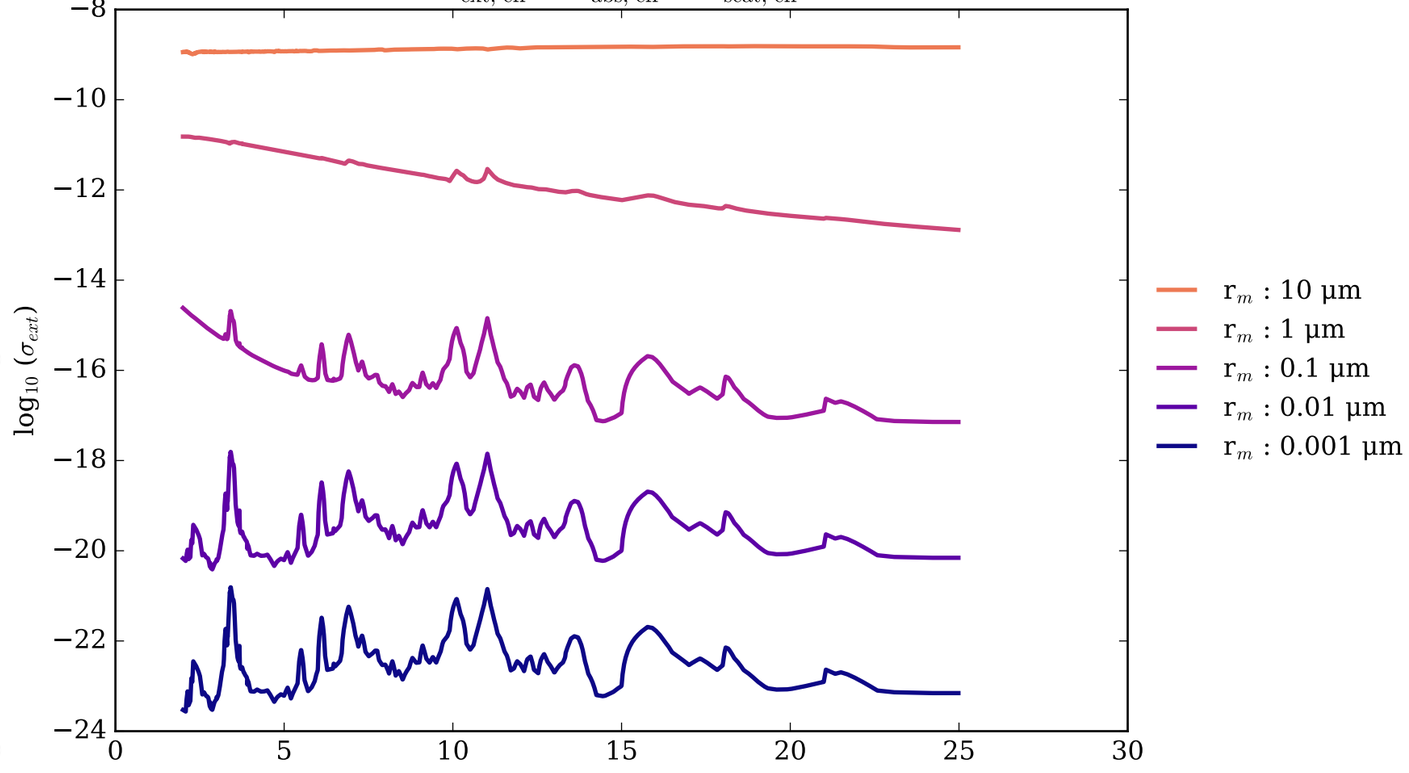


Refractive Indices for Hexene
(2.0, 24.98) µm

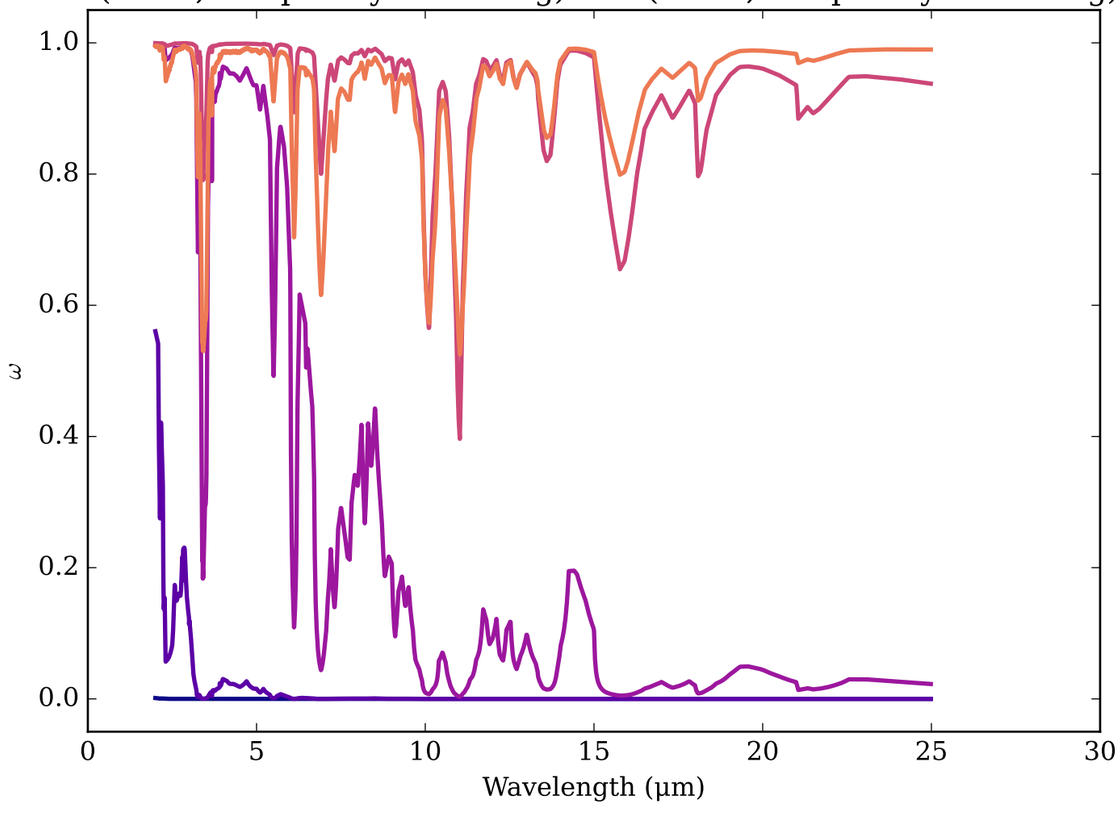


Hexene Effective Extinction Cross Section

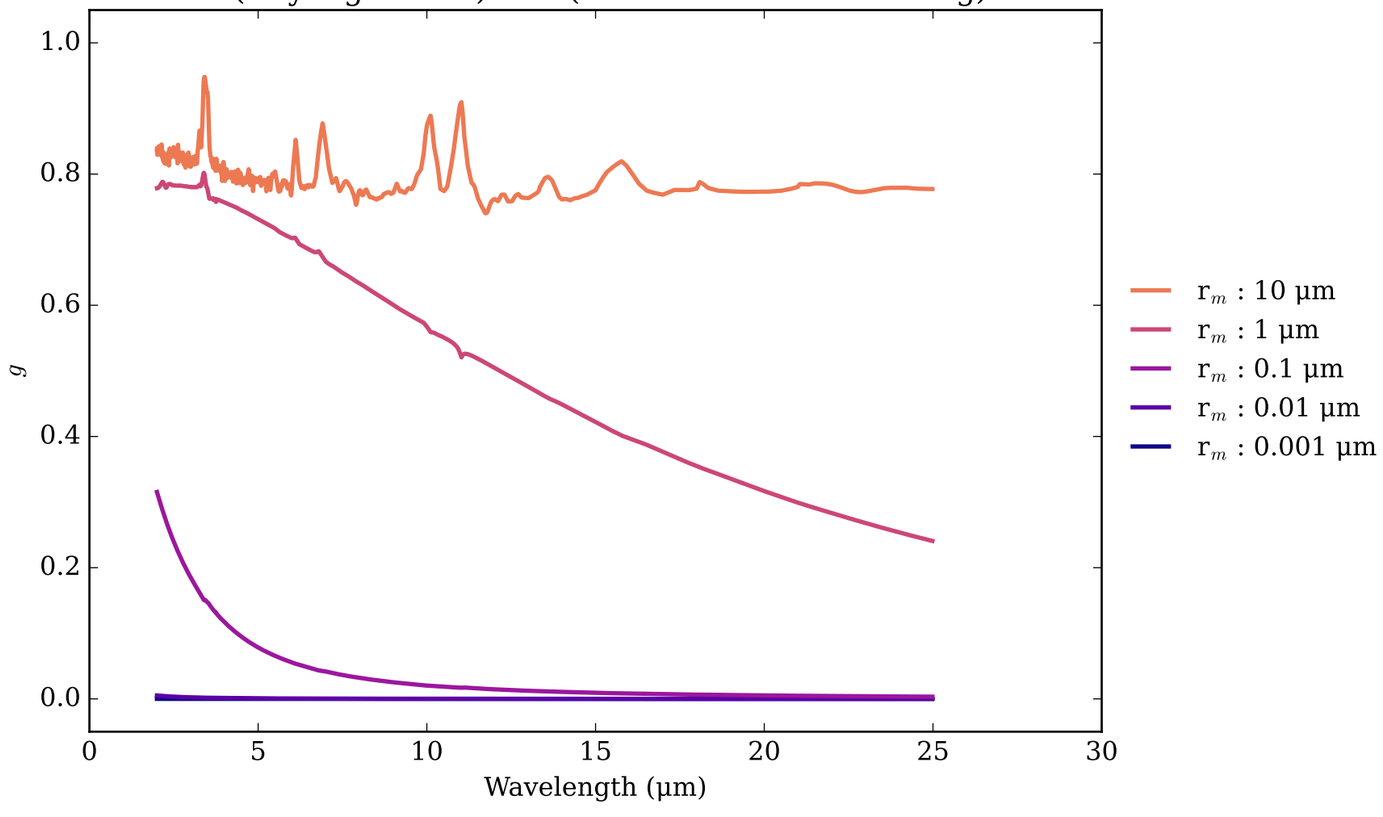
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



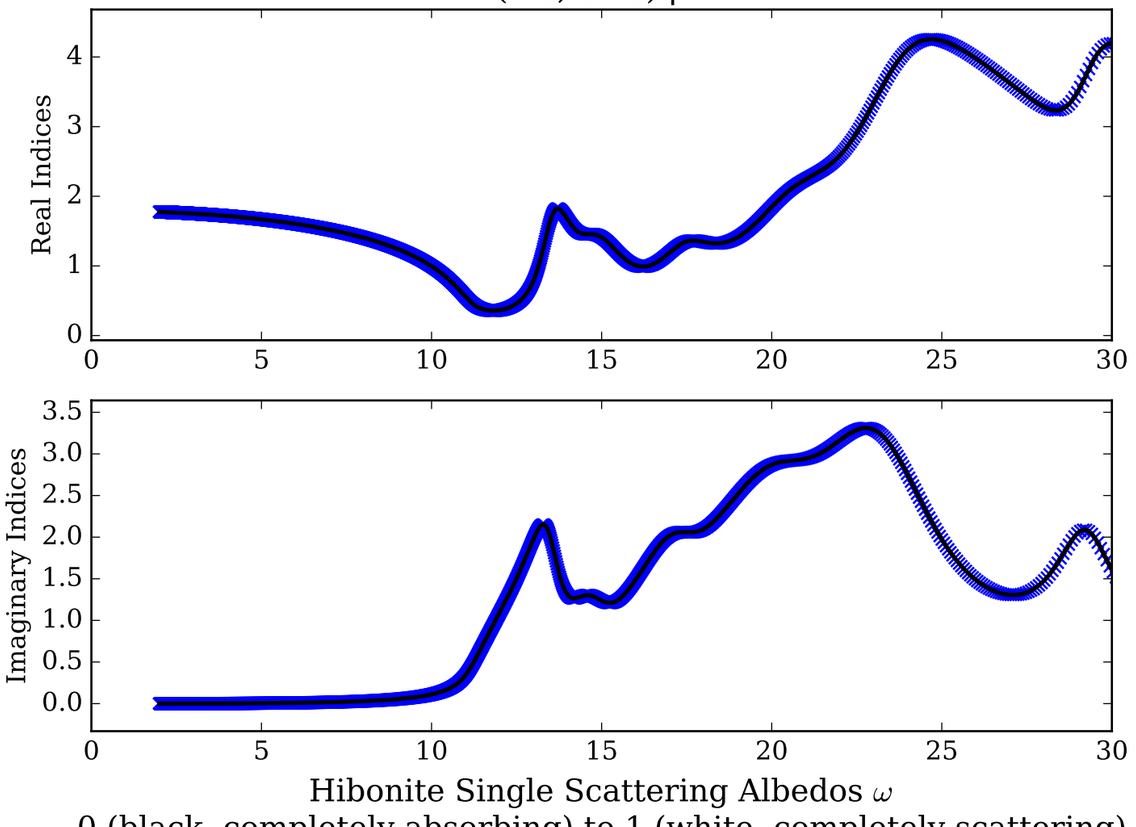
Hexene Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



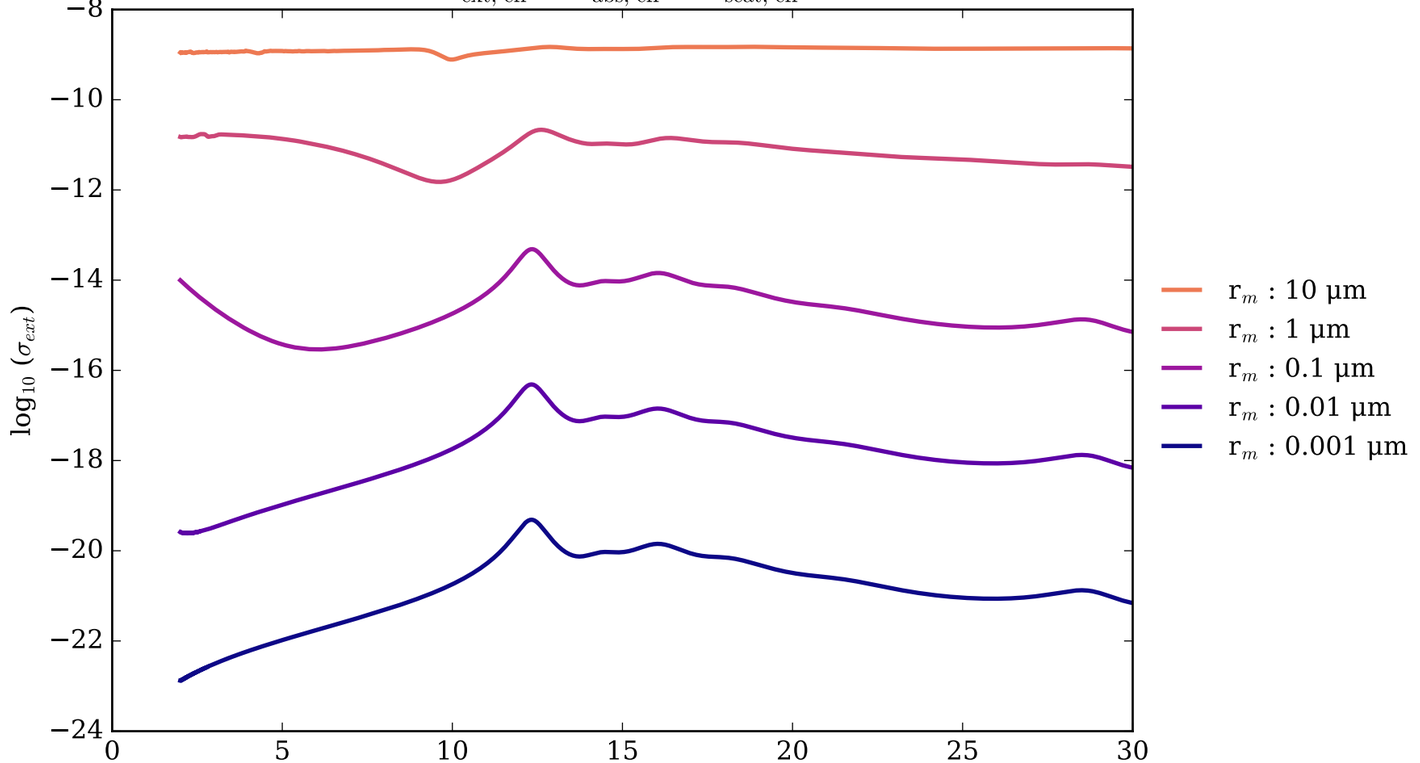
Hexene Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



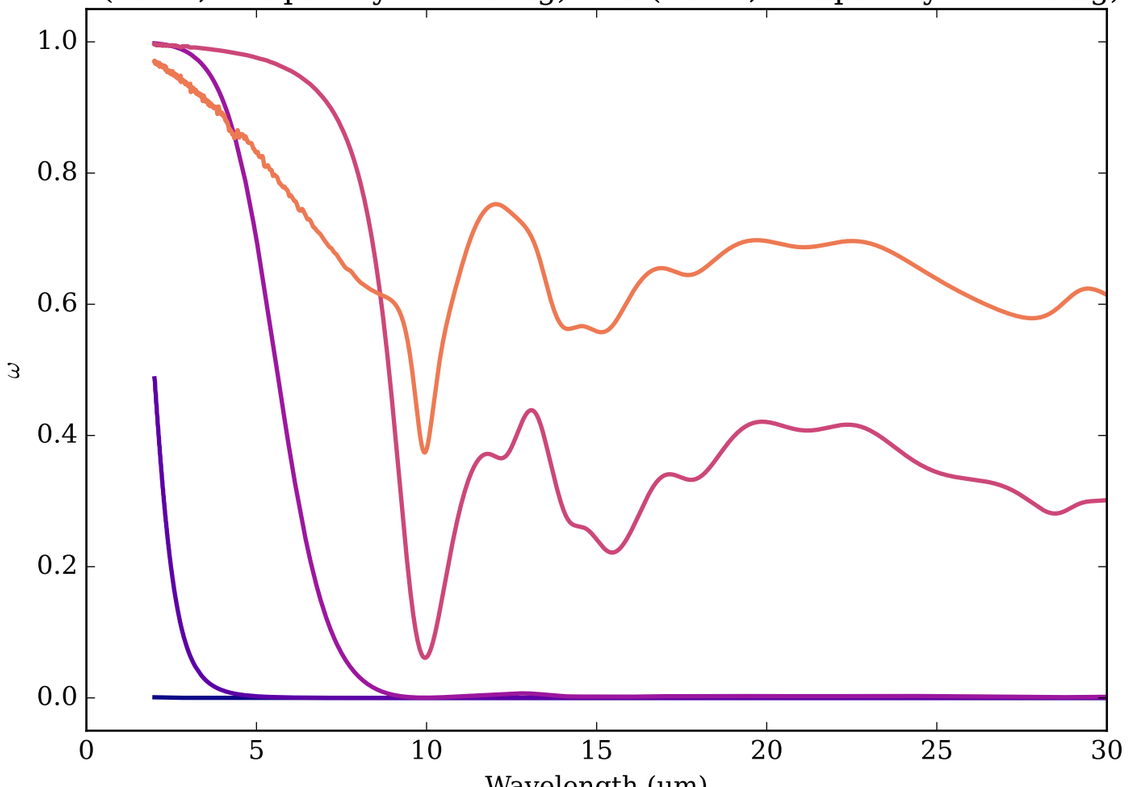
Refractive Indices for Hibonite
(2.0, 30.0) μm



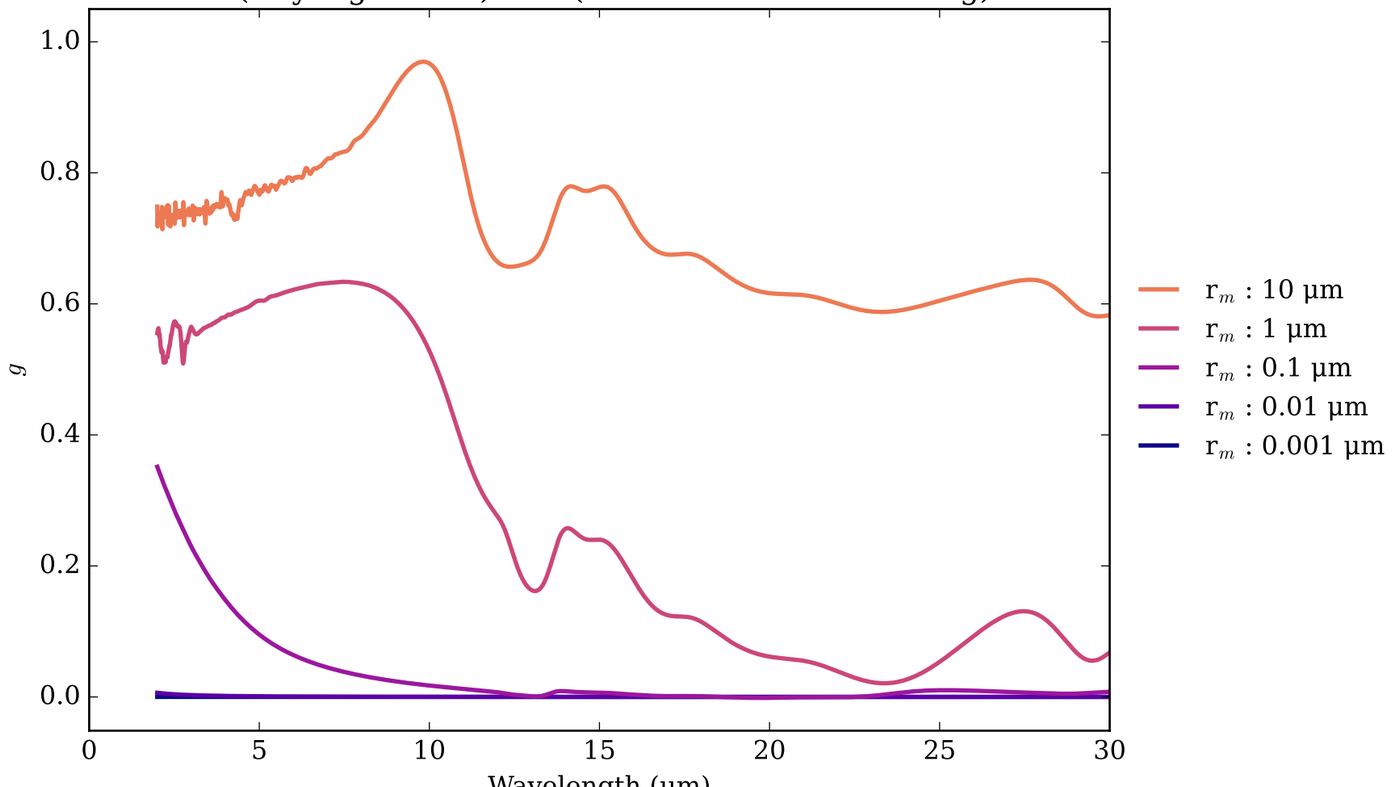
Hibonite Effective Extinction Cross Section
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



Hibonite Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Hibonite Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



Refractive Indices for IceTholin
(0.2, 30.0) μm

Real Indices

Imaginary Indices

IceTholin Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

IceTholin Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

IceTholin Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

Refractive Indices for KCl
(0.2, 30.0) μm

Real Indices

Imaginary Indices

KCl Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

KCl Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

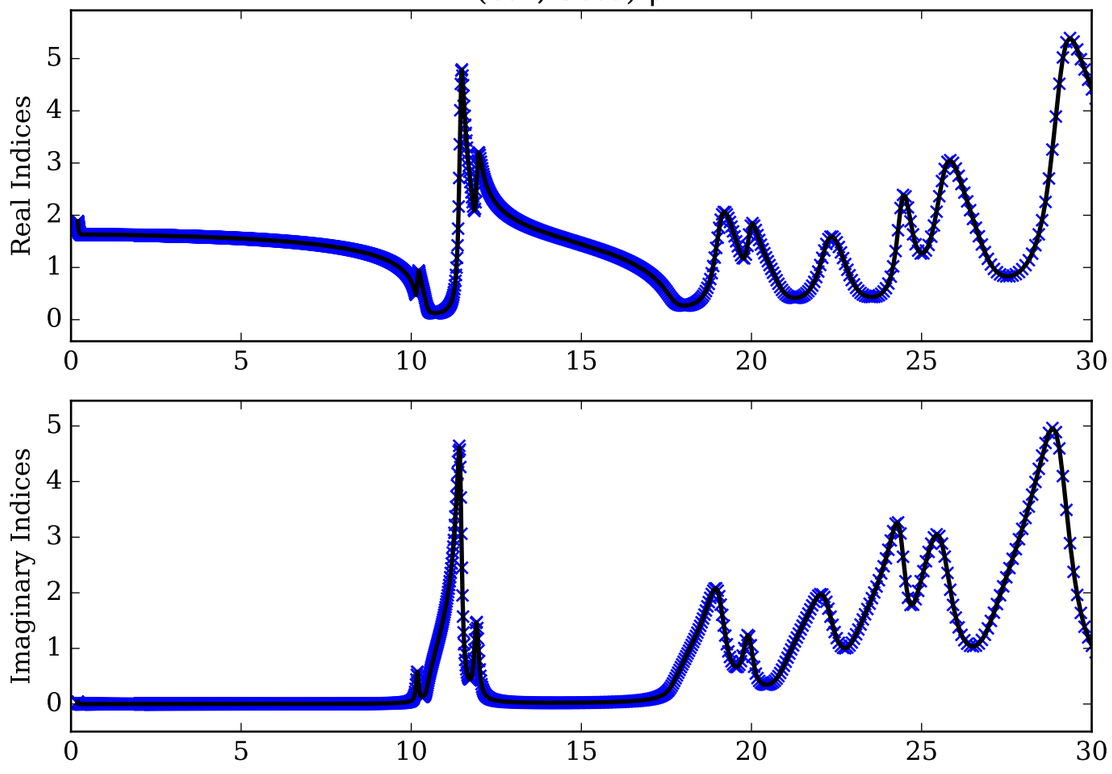
KCl Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

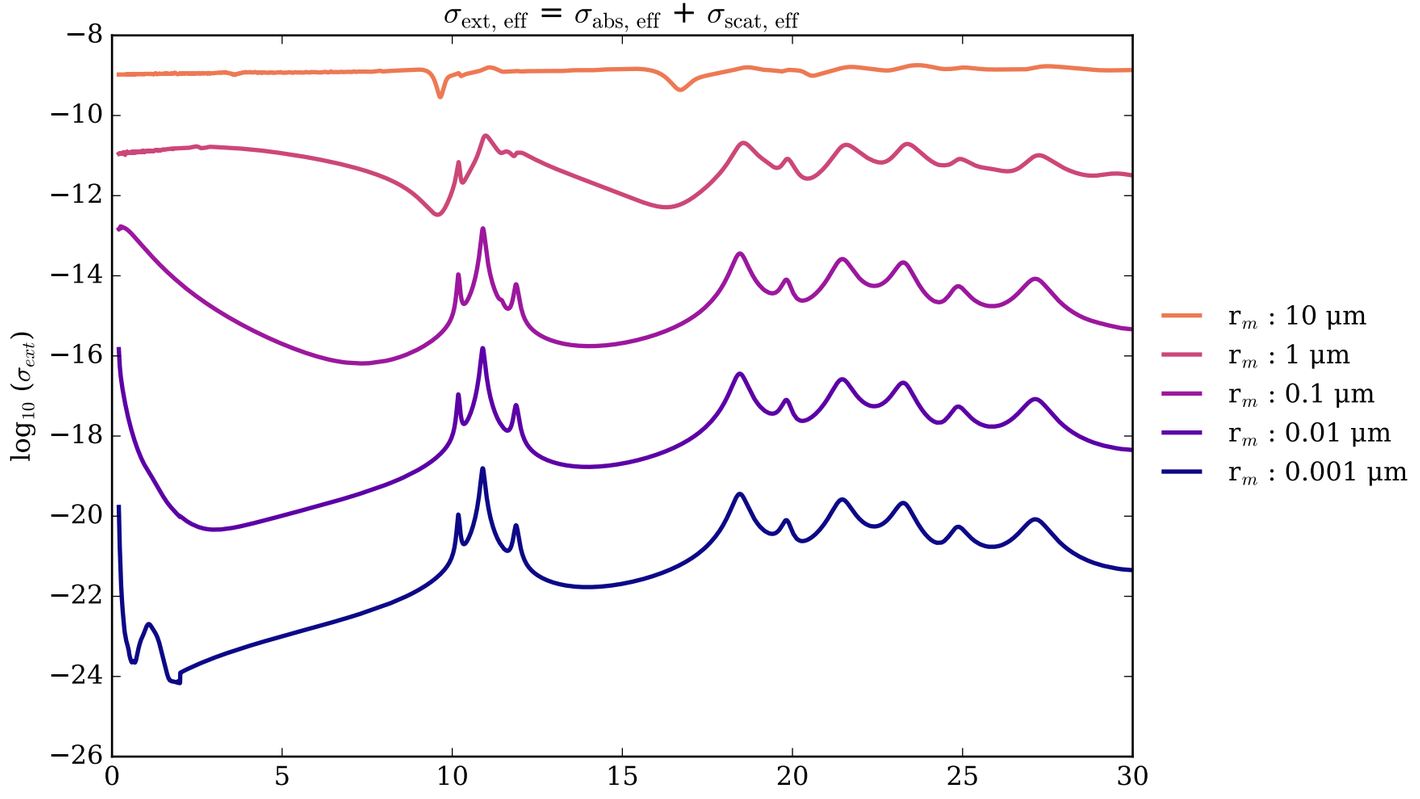
r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

Refractive Indices for Mg2SiO4
(0.2, 30.0) μm

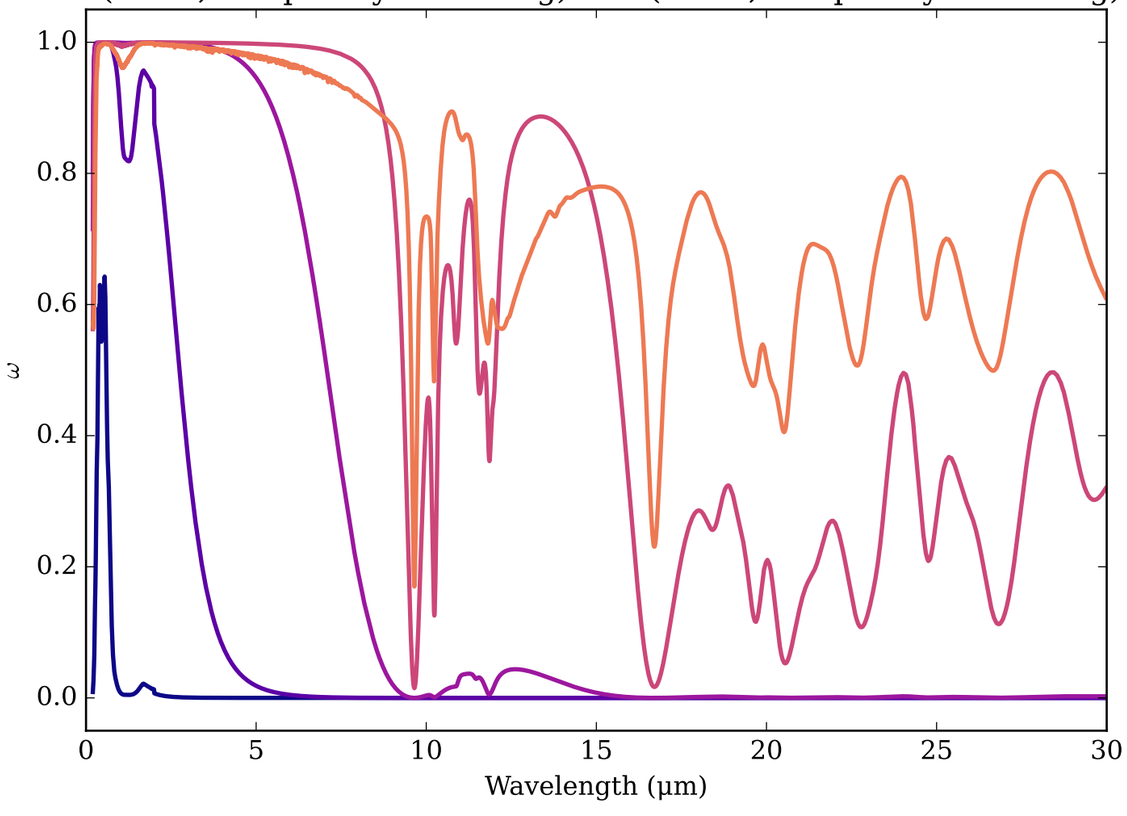


Mg2SiO4_Fe_poor Effective Extinction Cross Section

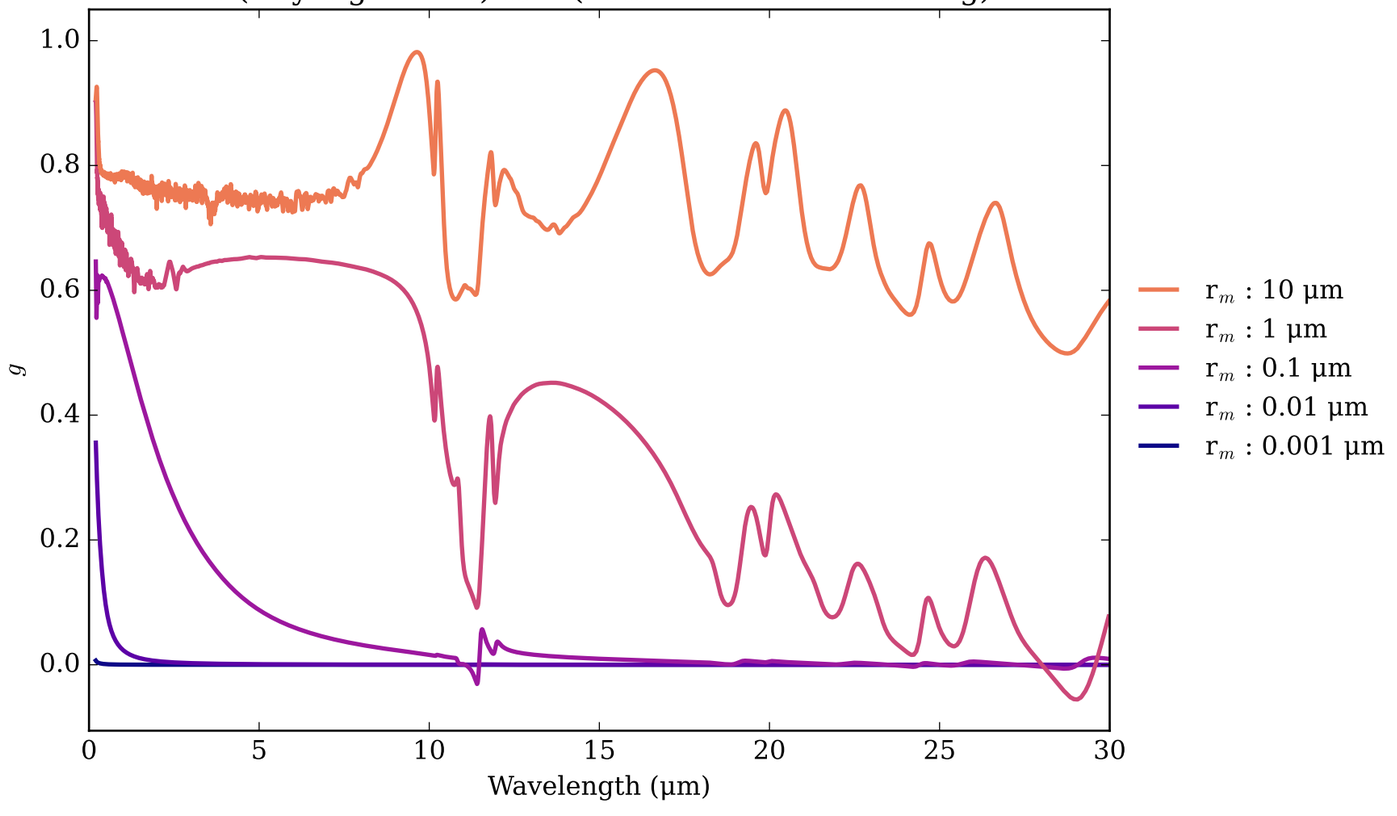
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



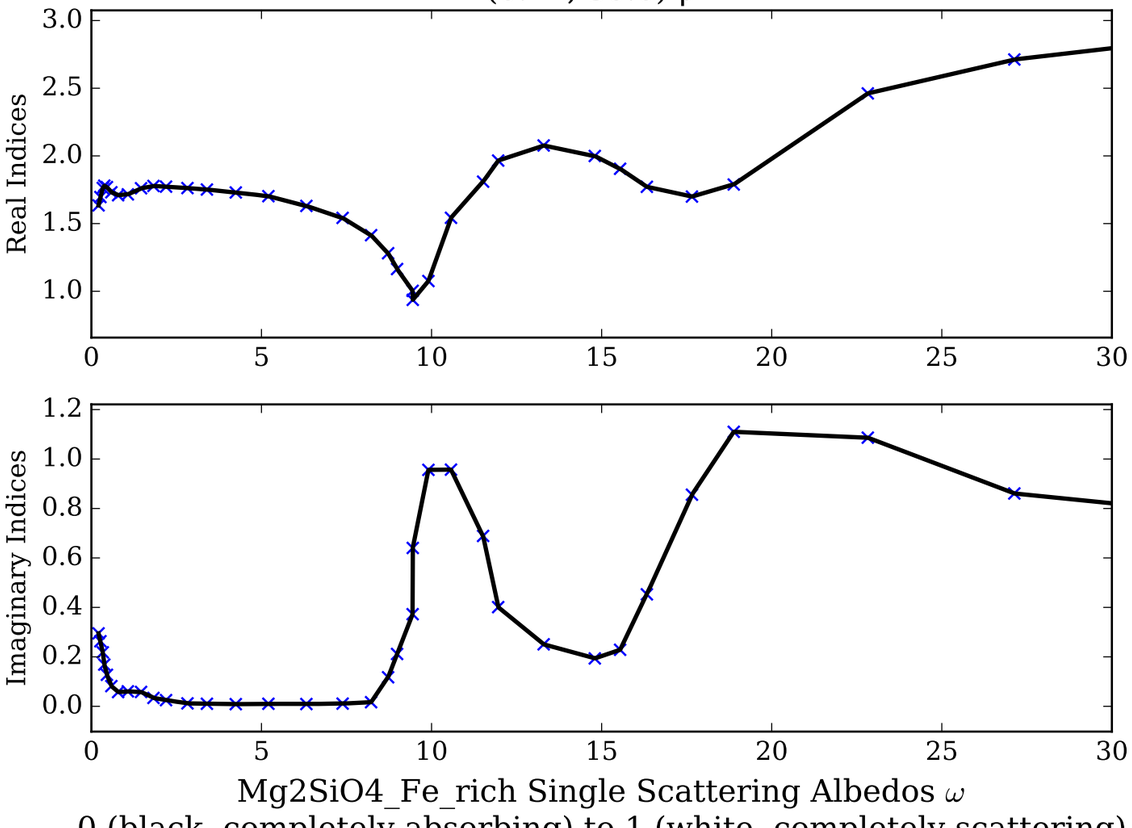
Mg2SiO4_Fe_poor Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Mg2SiO4_Fe_poor Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

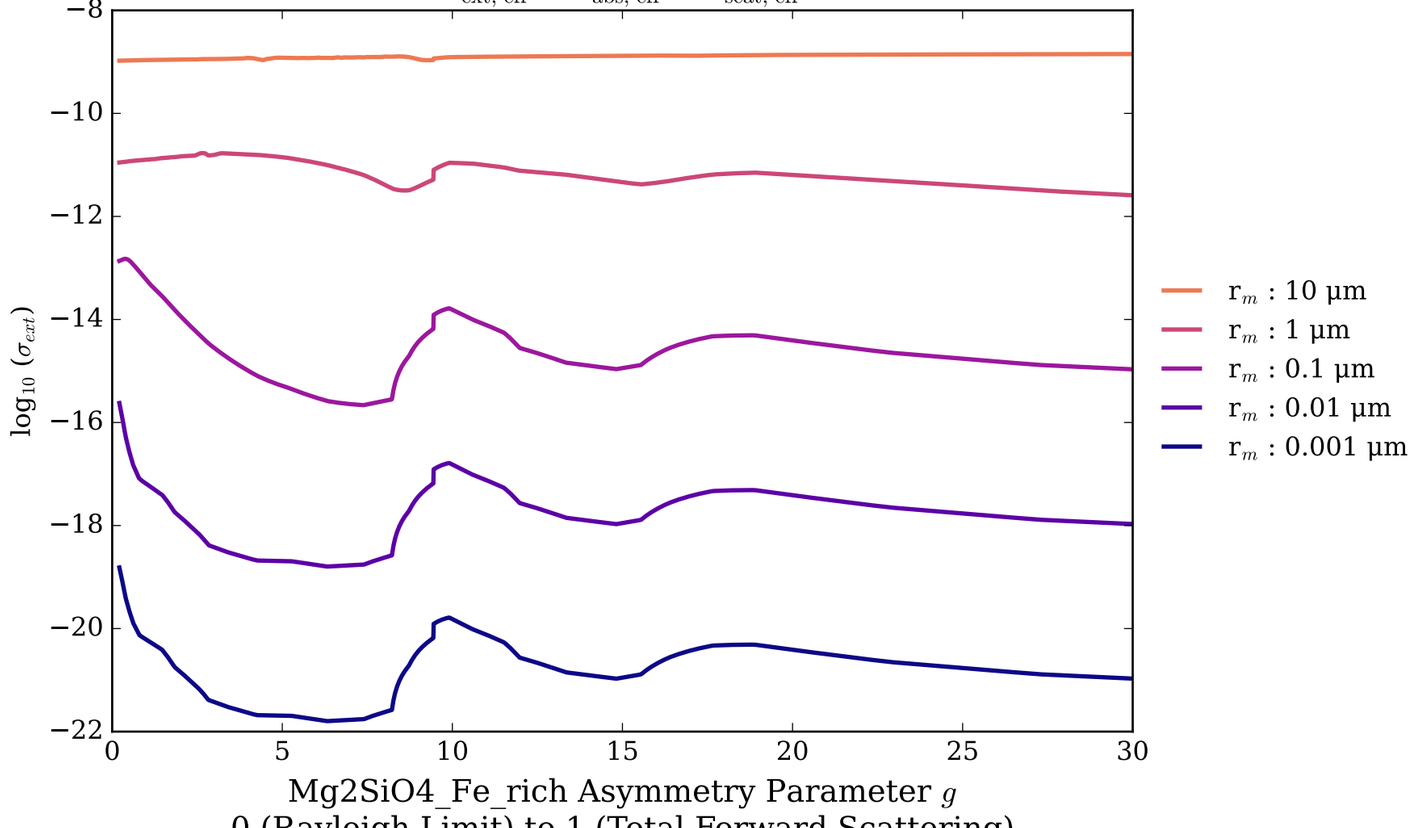


Refractive Indices for Mg2SiO4
(0.21, 30.0) μm

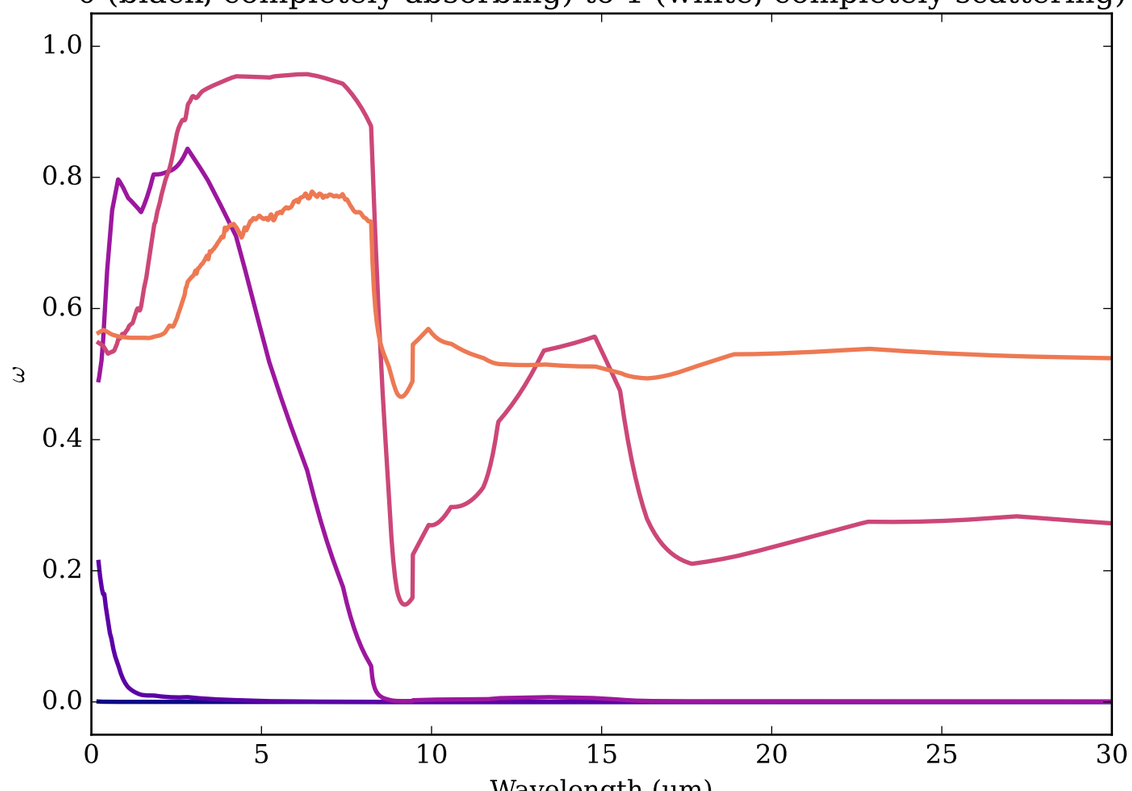


Mg2SiO4_Fe_rich Effective Extinction Cross Section

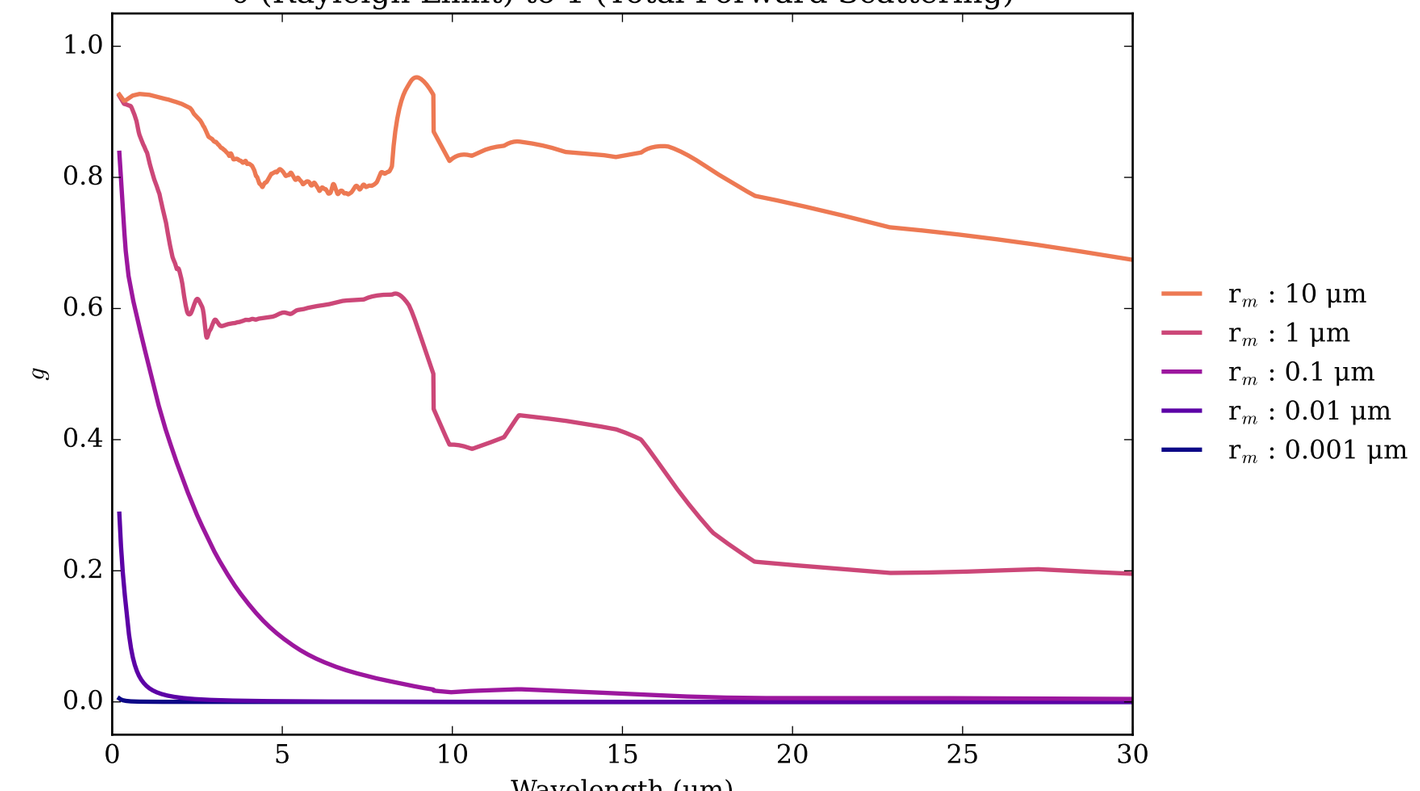
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



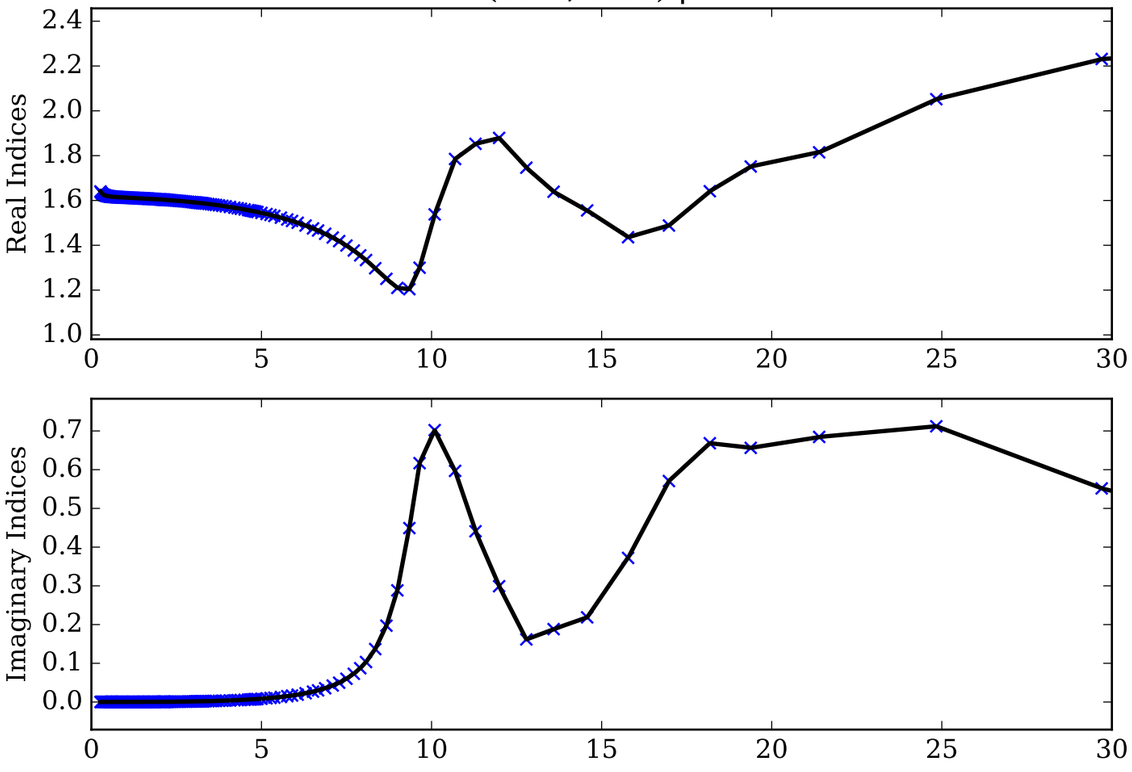
Mg2SiO4_Fe_rich Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Mg2SiO4_Fe_rich Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

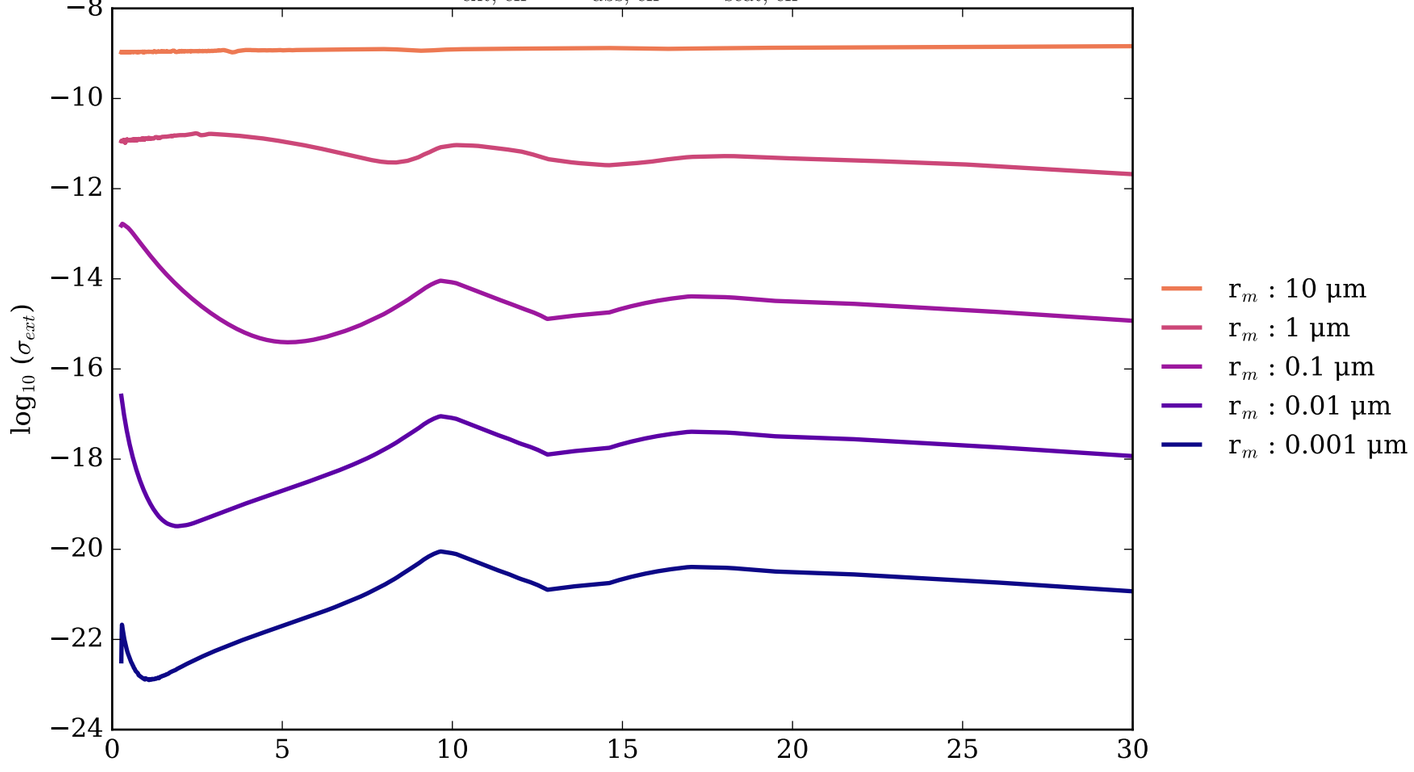


Refractive Indices for Mg2SiO4
(0.27, 30.0) μm

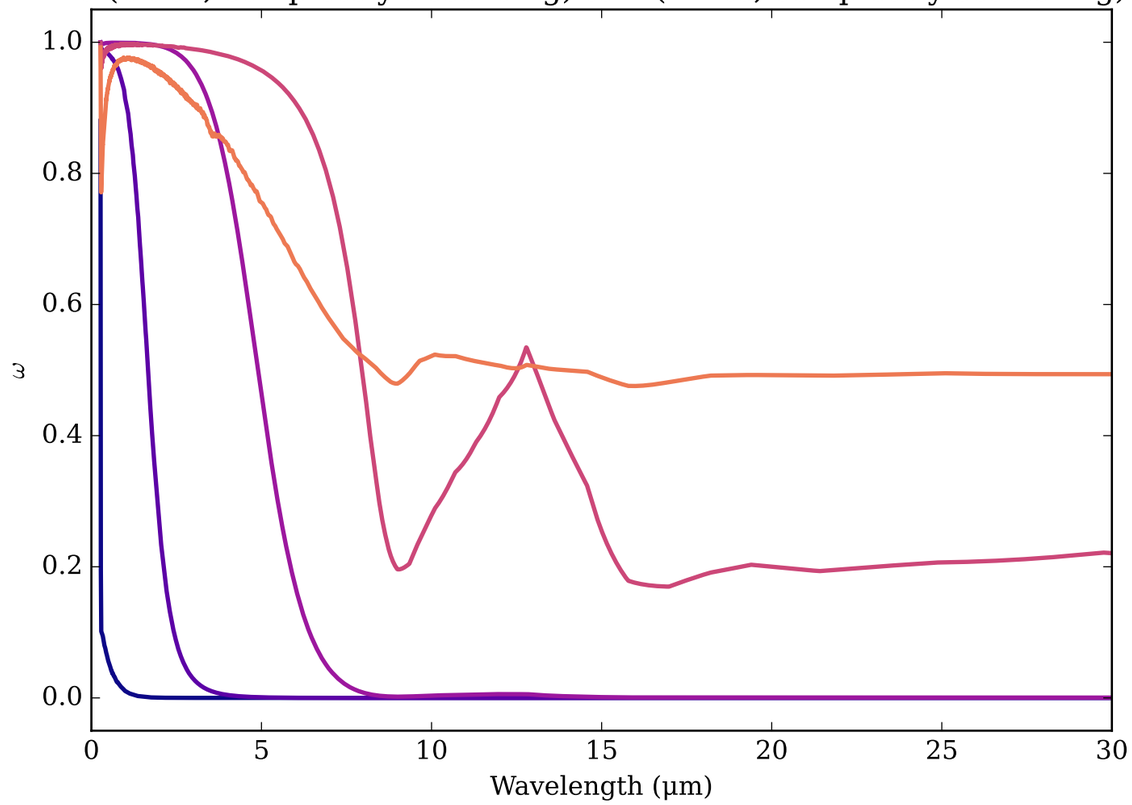


Mg2SiO4_amorph Effective Extinction Cross Section

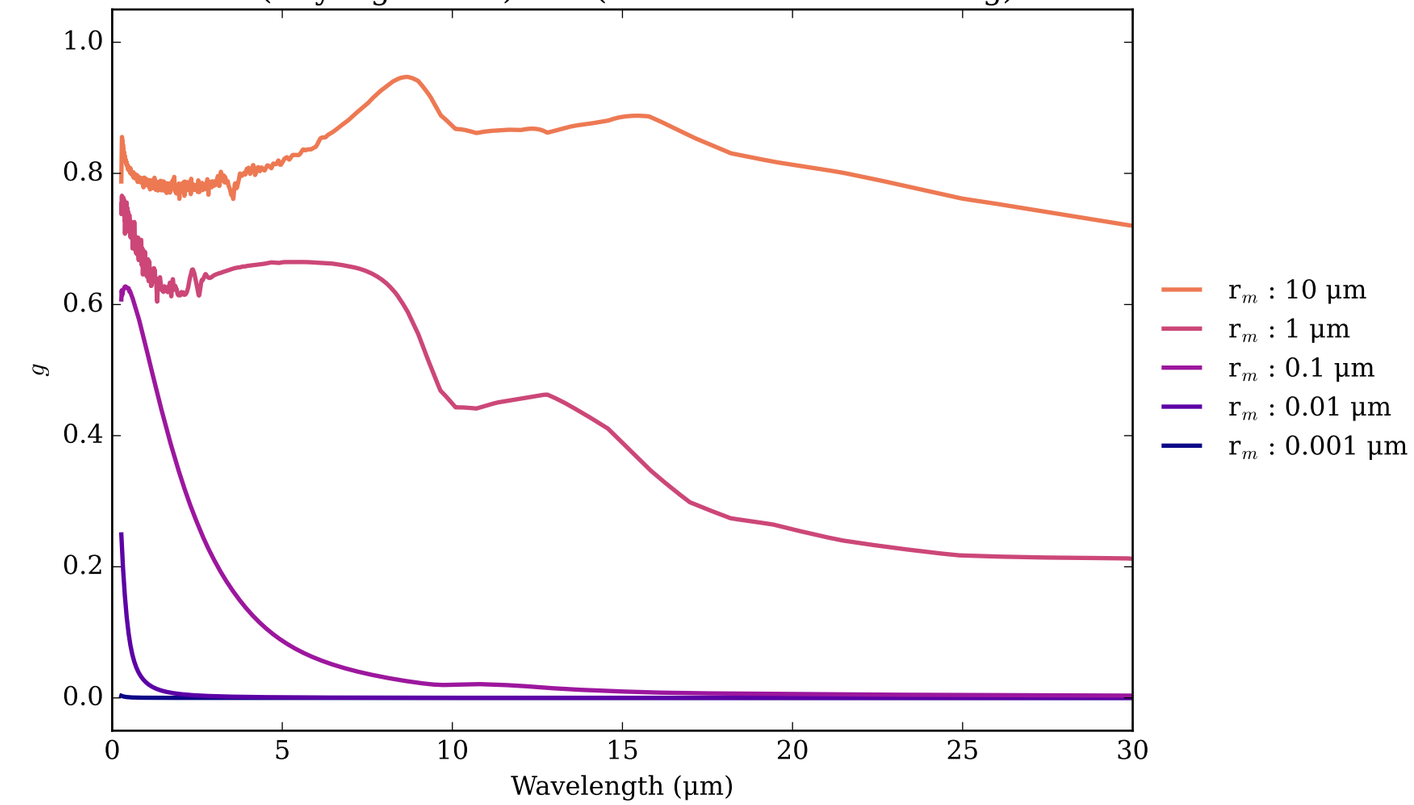
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



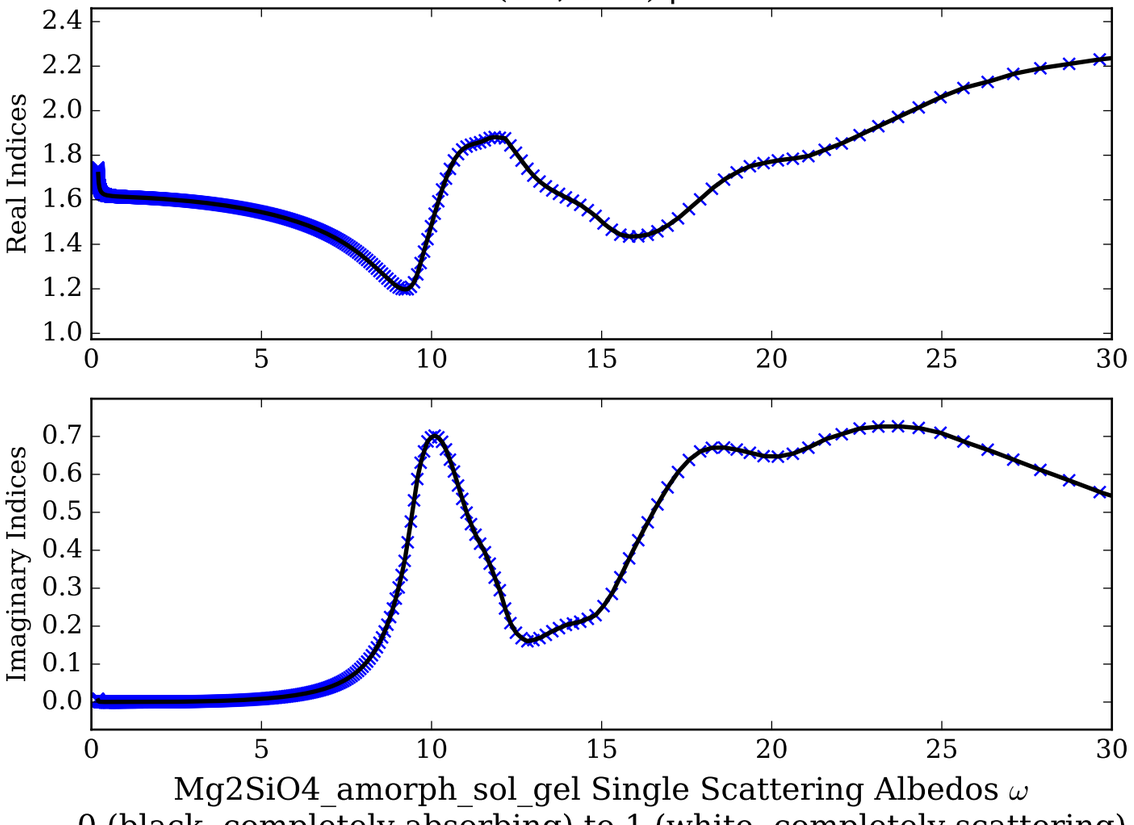
Mg2SiO4_amorph Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Mg2SiO4_amorph Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

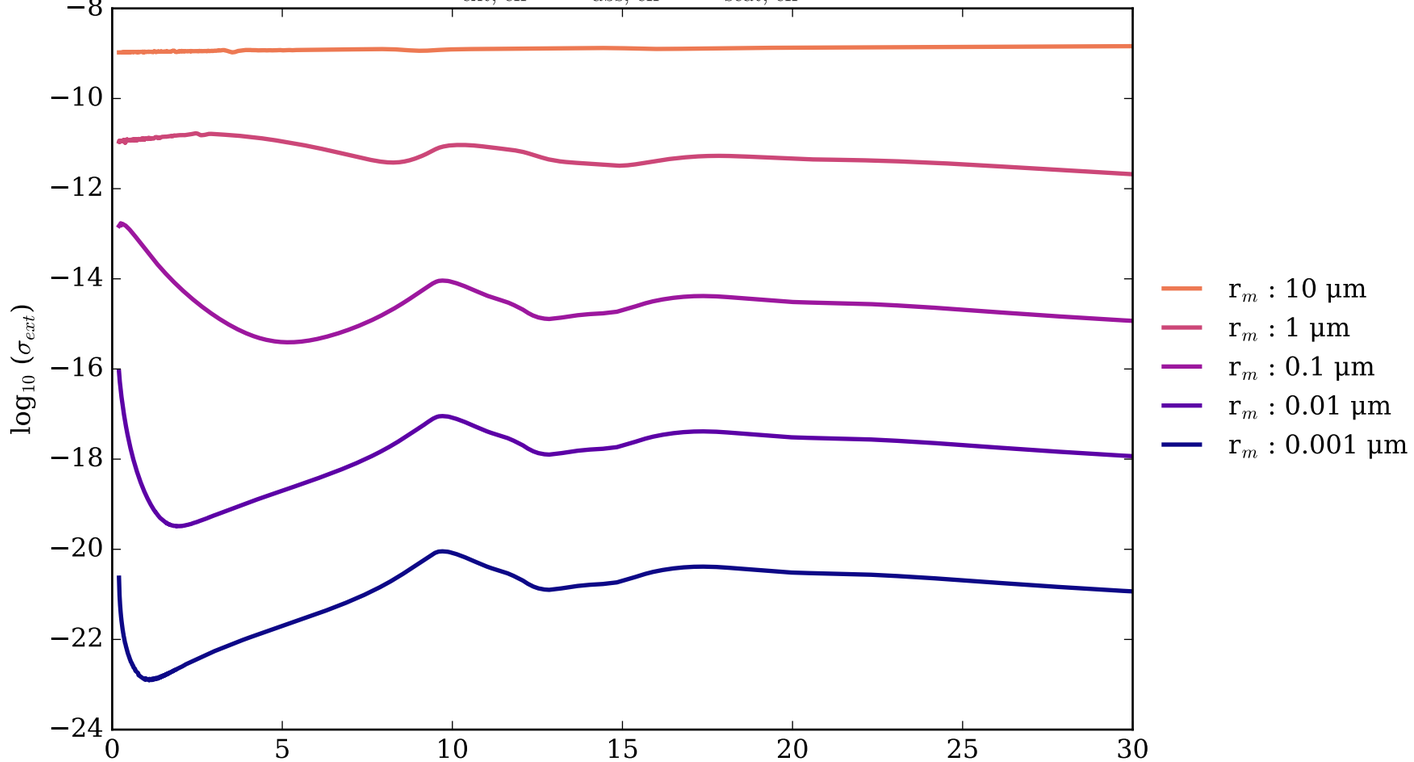


Refractive Indices for Mg2SiO4
(0.2, 30.0) μm

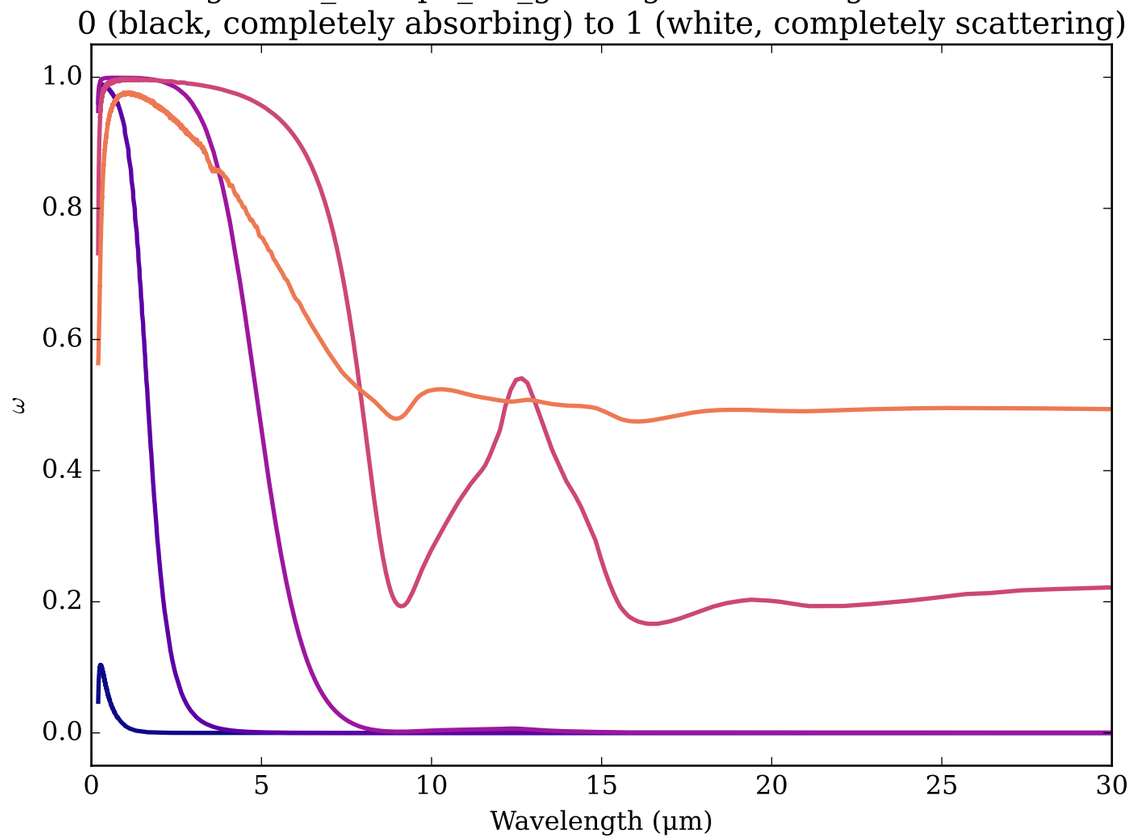


Mg2SiO4_amorph_sol_gel Effective Extinction Cross Section

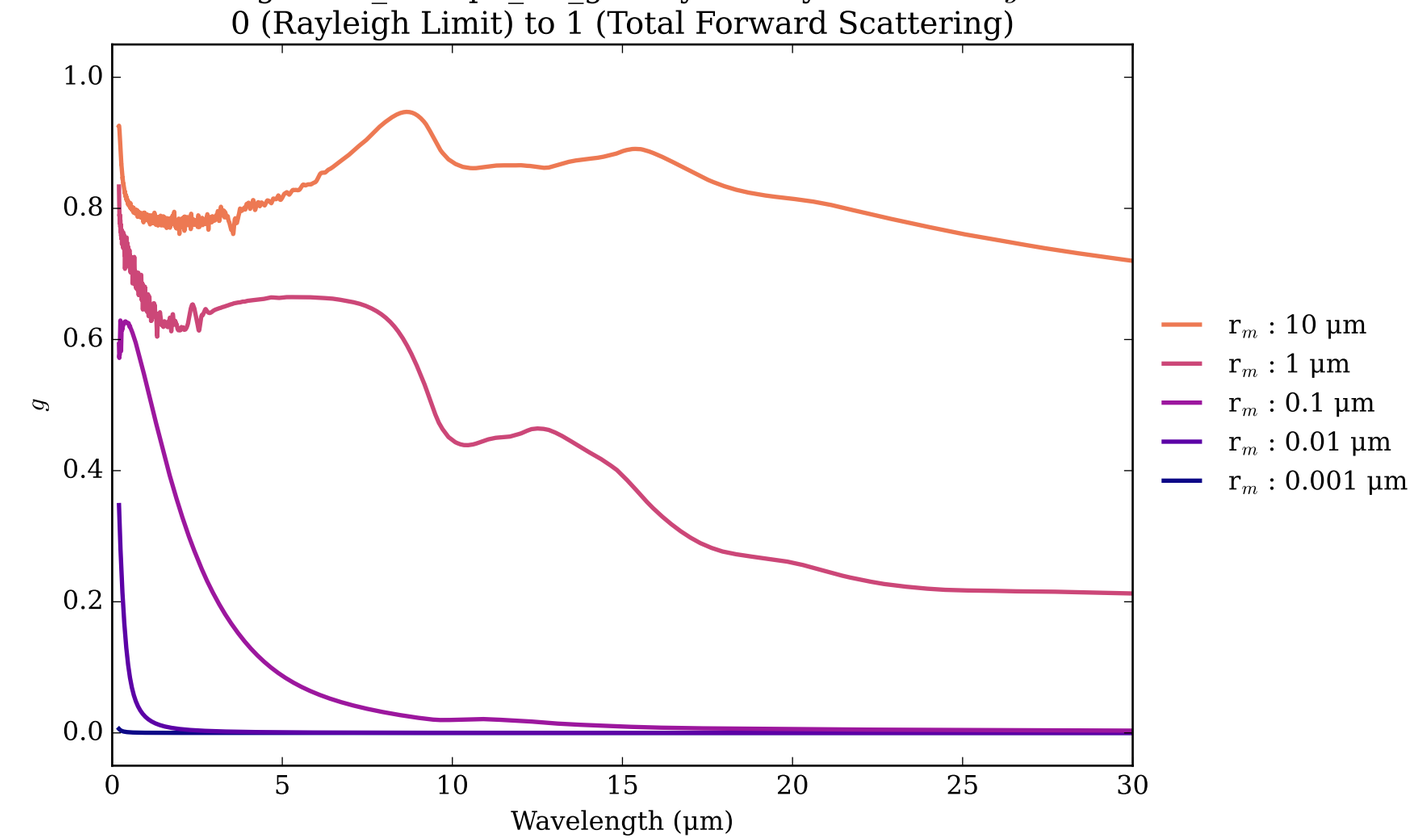
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



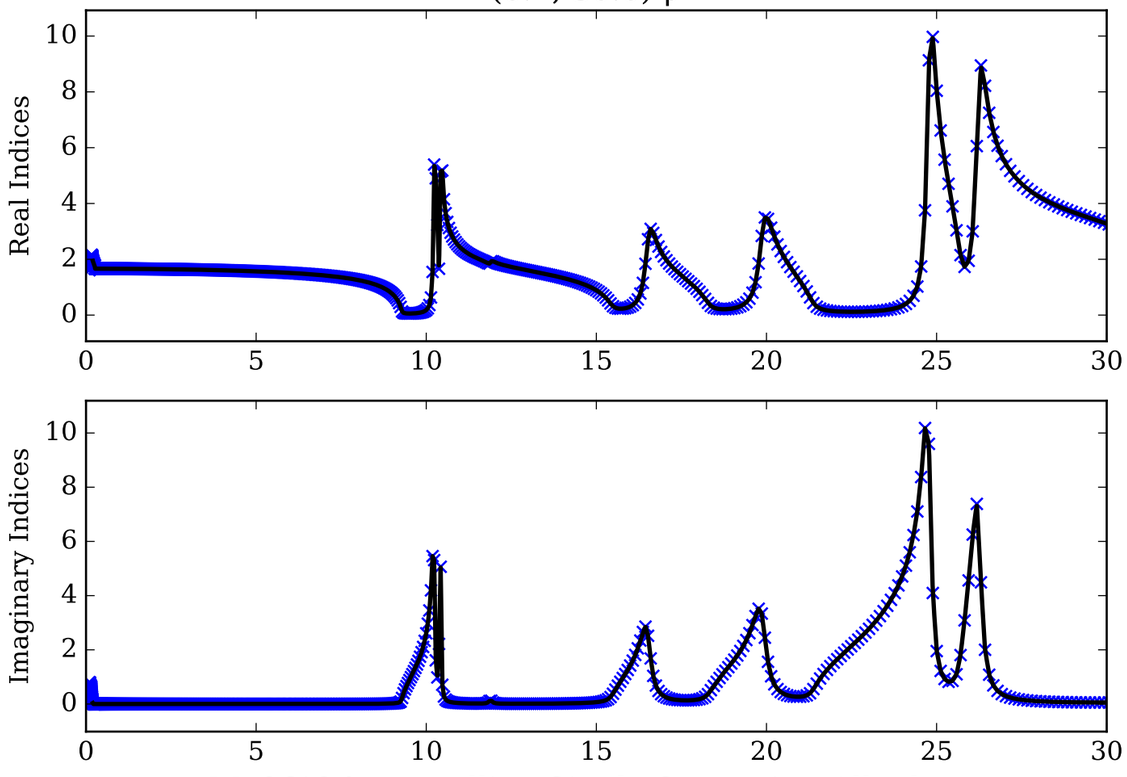
Mg2SiO4_amorph_sol_gel Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Mg2SiO4_amorph_sol_gel Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

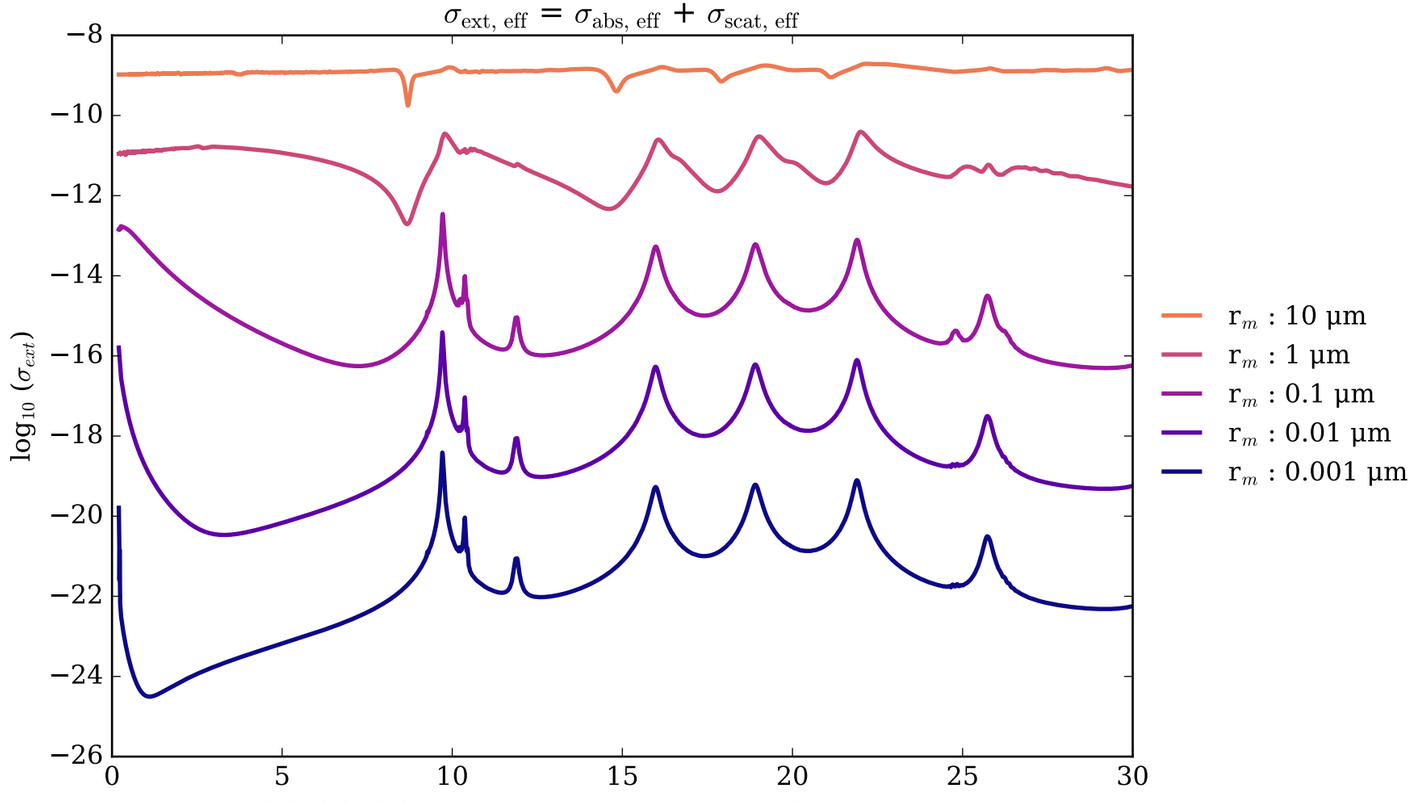


Refractive Indices for Mg2SiO4
(0.2, 30.0) μm

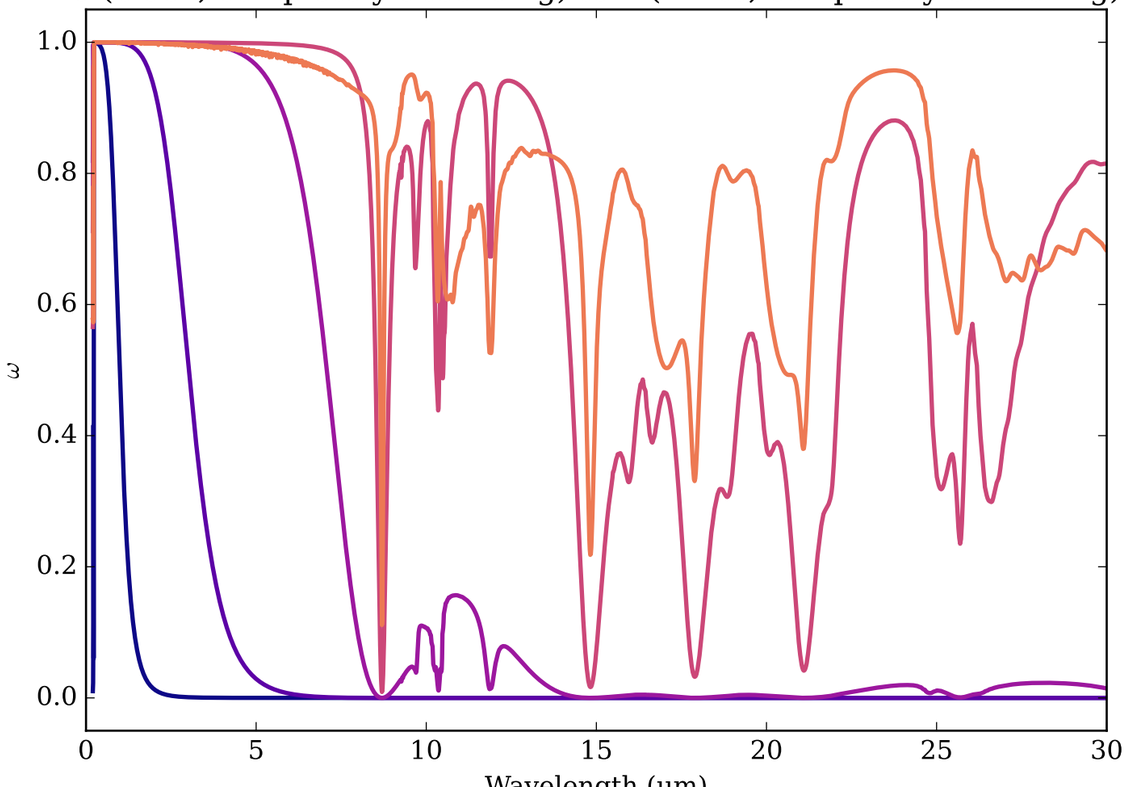


Mg2SiO4_crystalline Effective Extinction Cross Section

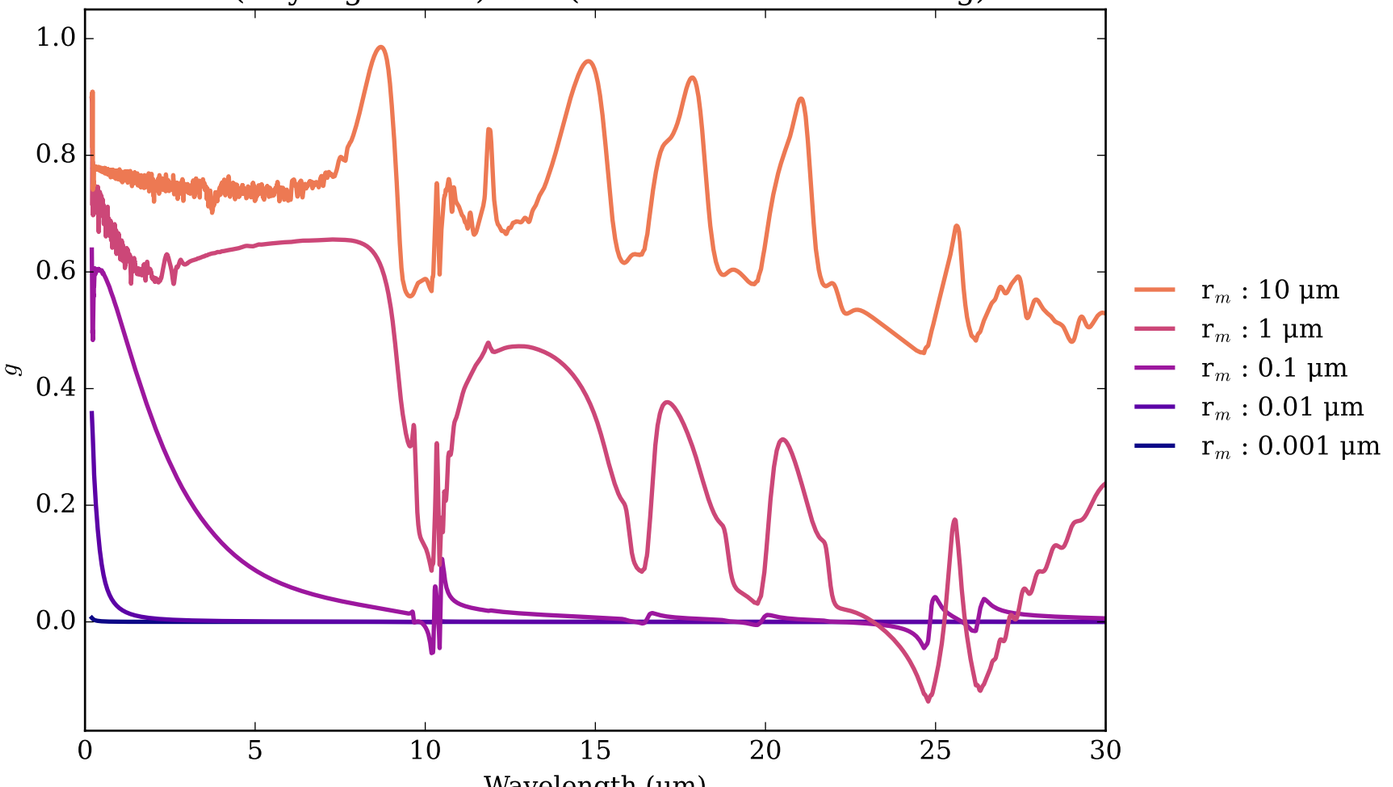
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



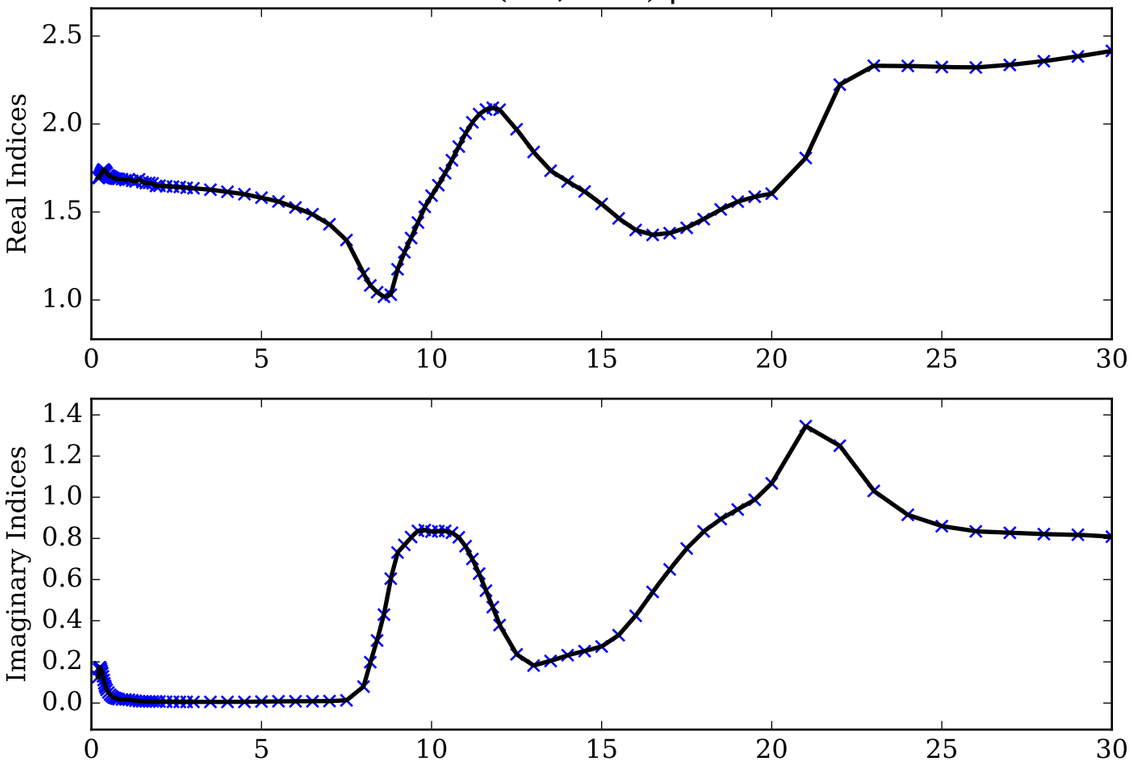
Mg2SiO4_crystalline Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Mg2SiO4_crystalline Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

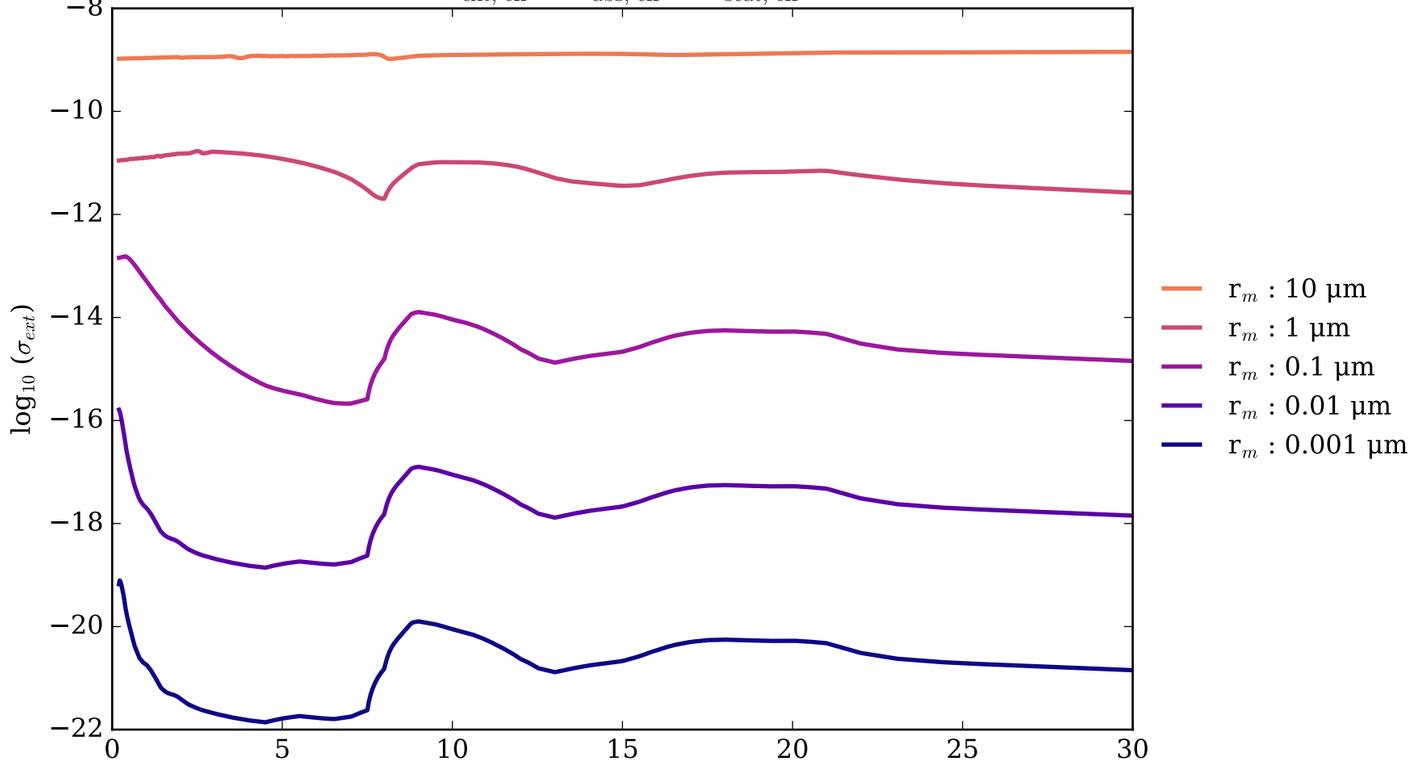


Refractive Indices for Mg4Fe6SiO3
(0.2, 30.0) μm

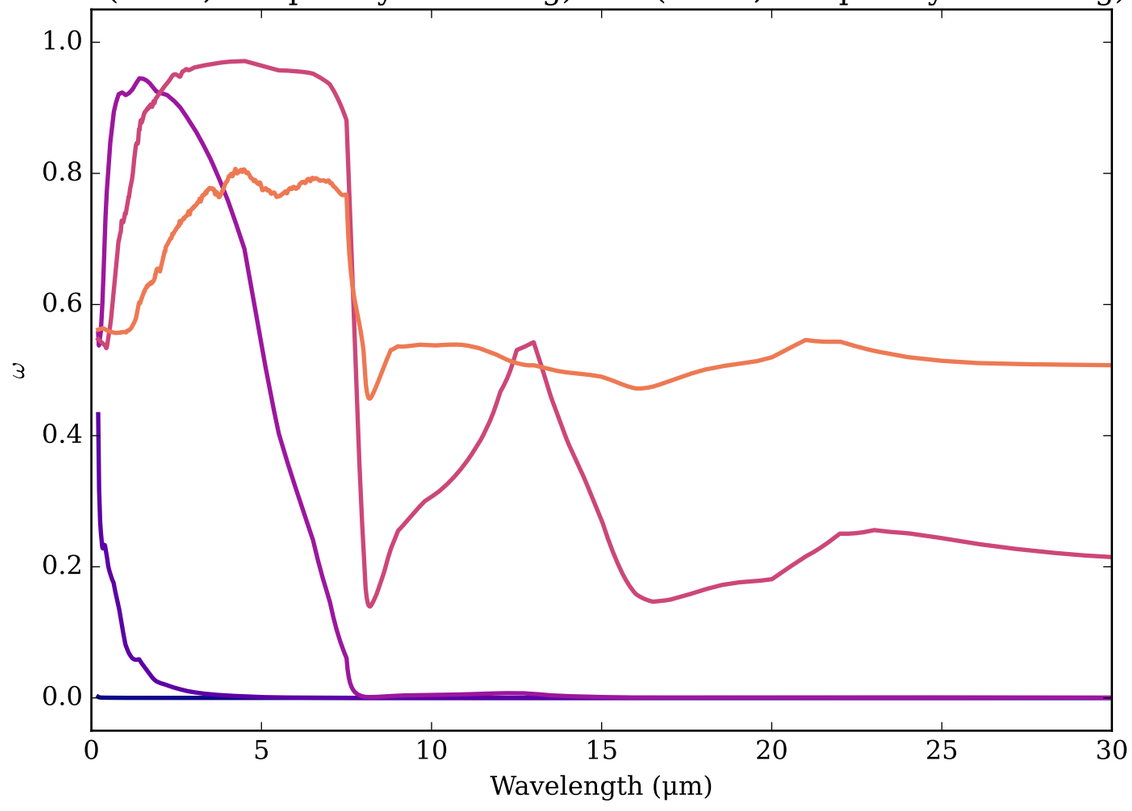


Mg4Fe6SiO3_amorph_glass Effective Extinction Cross Section

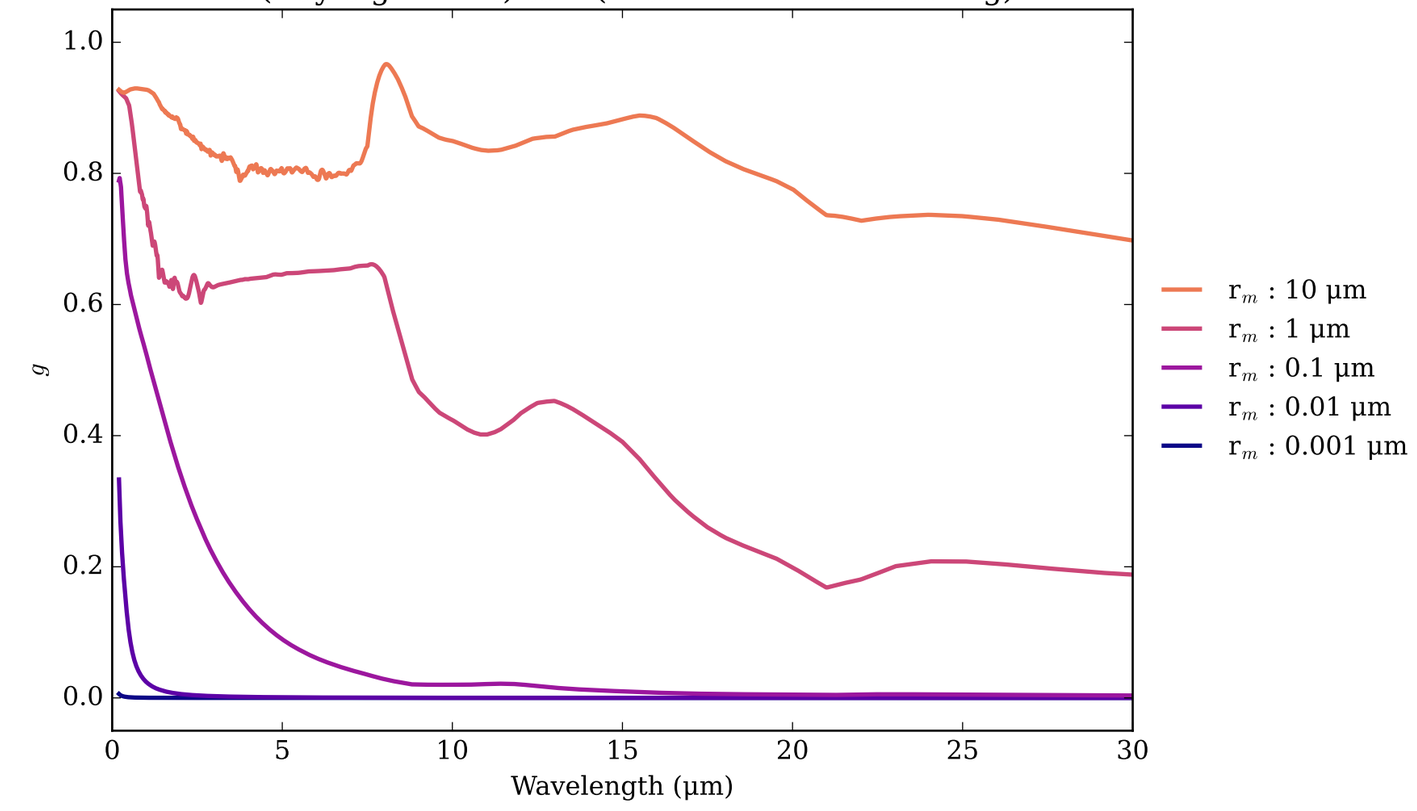
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



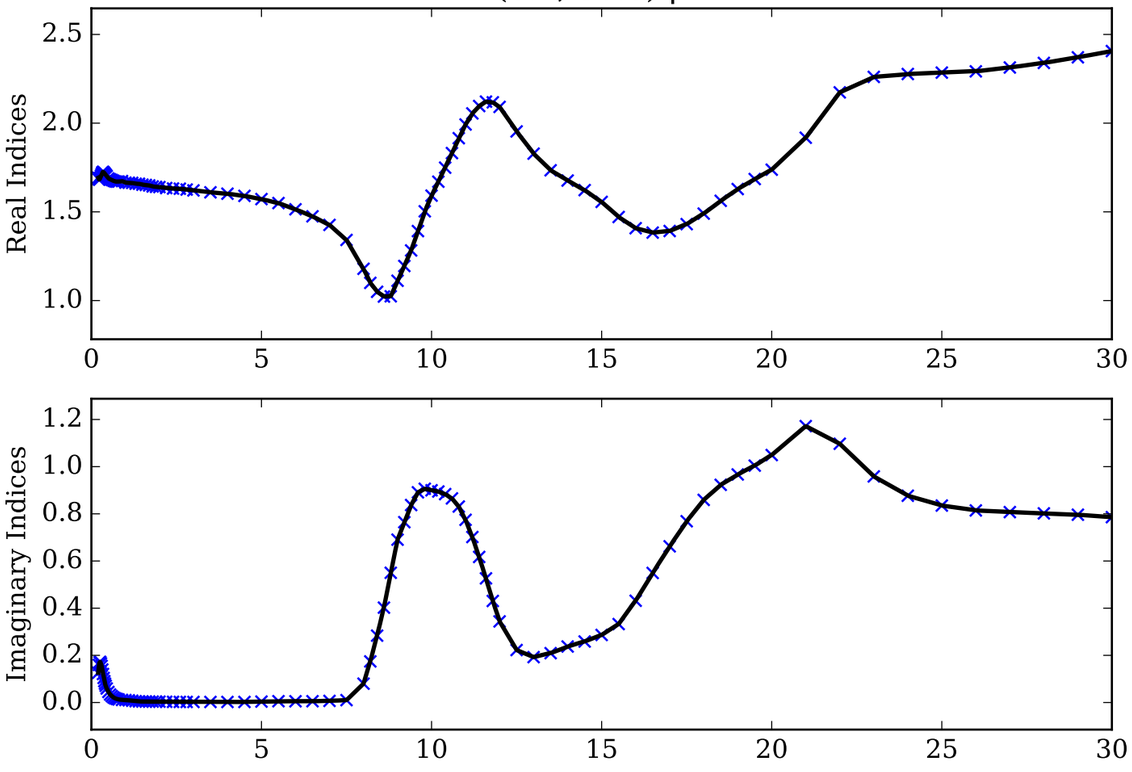
Mg4Fe6SiO3_amorph_glass Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Mg4Fe6SiO3_amorph_glass Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

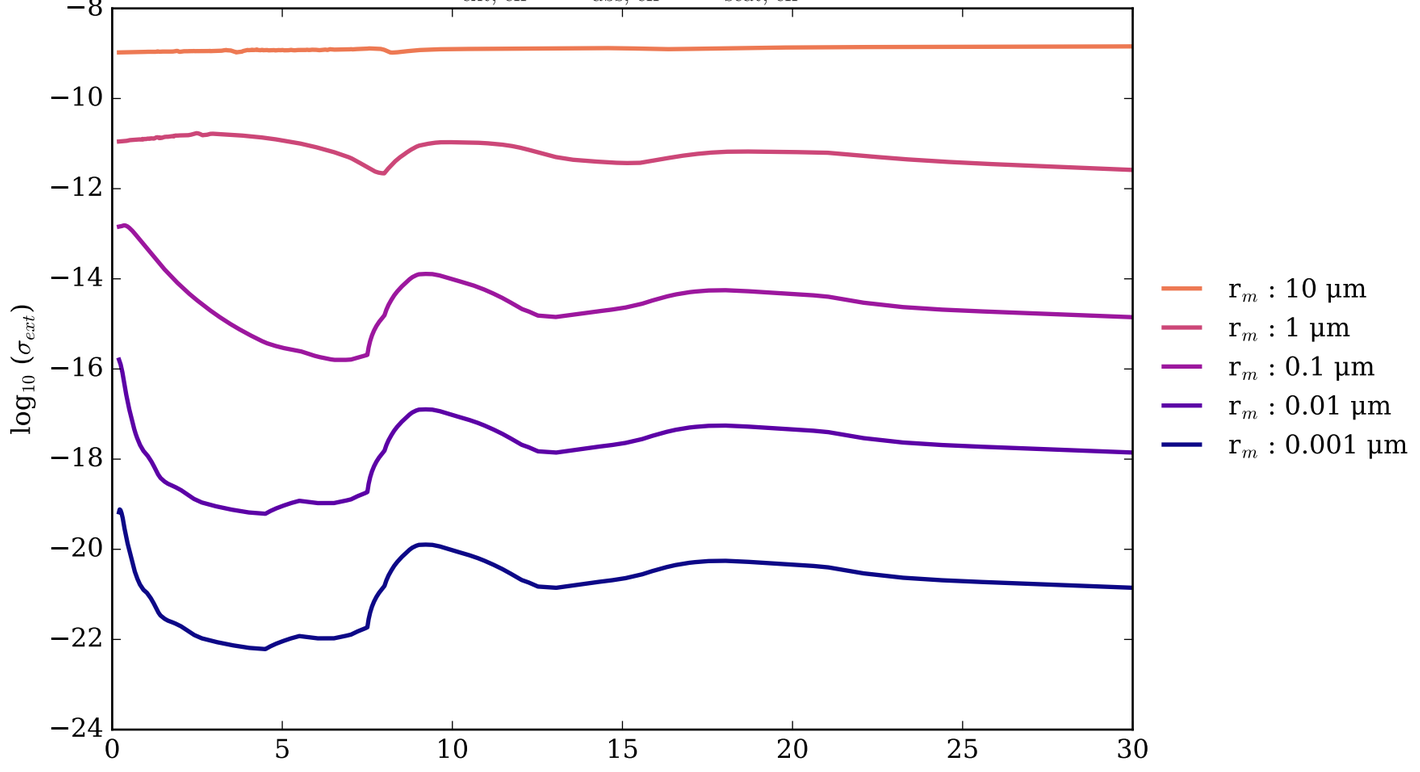


Refractive Indices for Mg5Fe5SiO3
(0.2, 30.0) μm

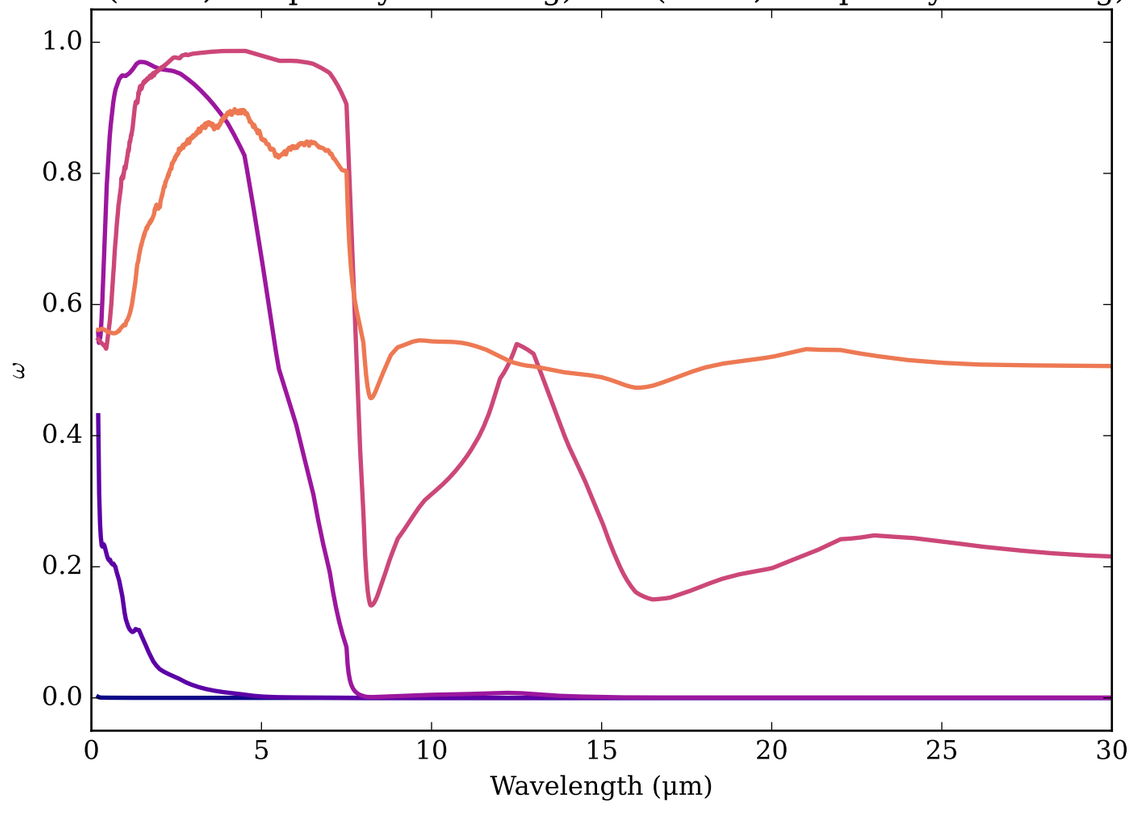


Mg5Fe5SiO3_amorph_glass Effective Extinction Cross Section

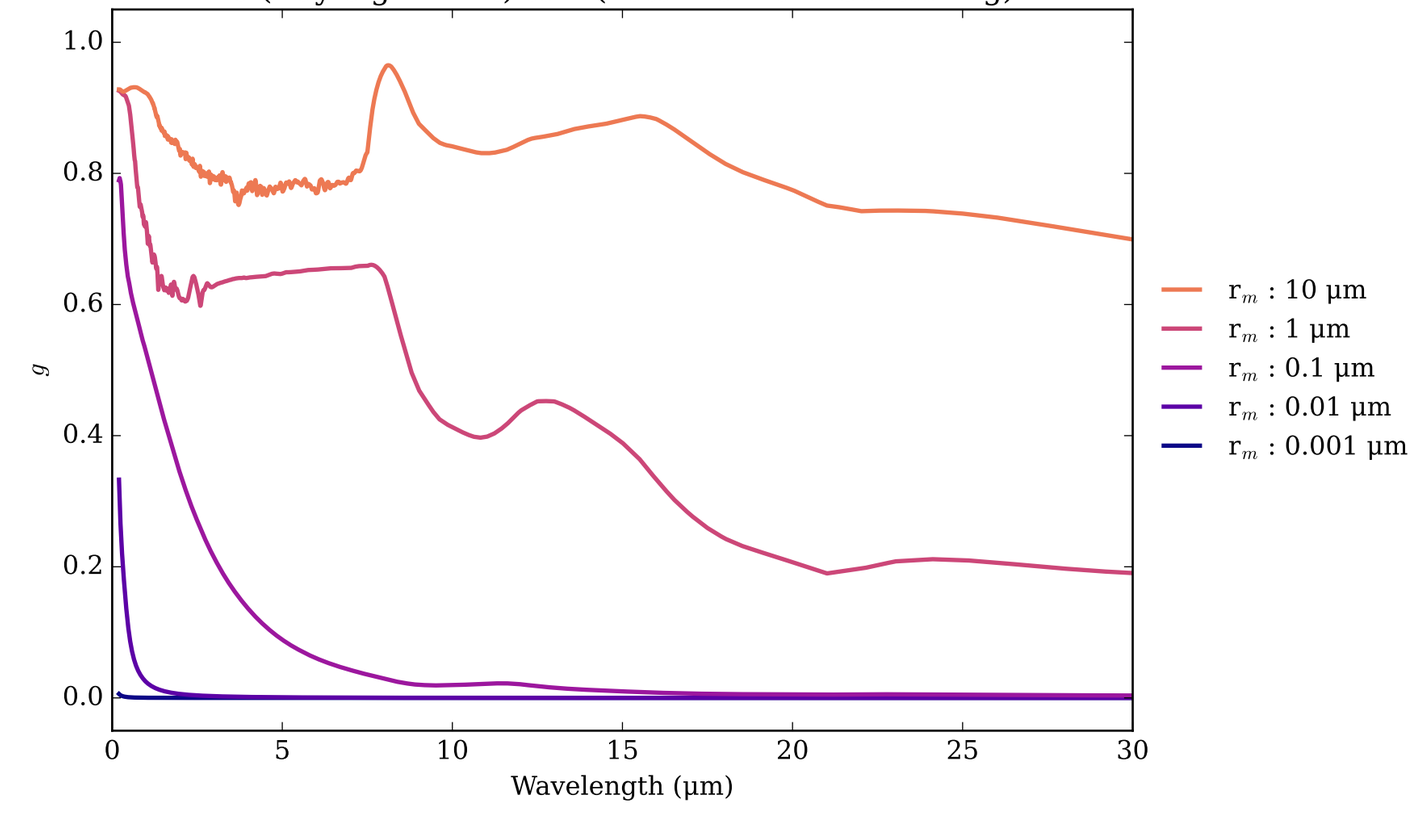
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



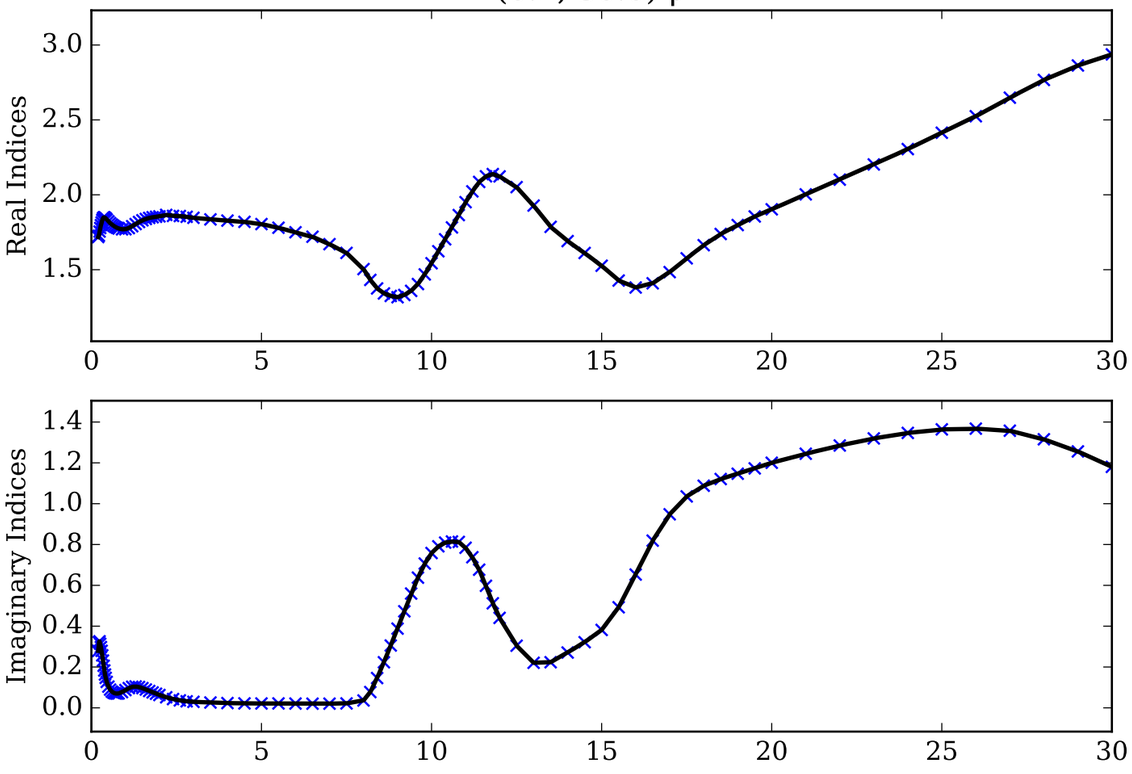
Mg5Fe5SiO3_amorph_glass Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Mg5Fe5SiO3_amorph_glass Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

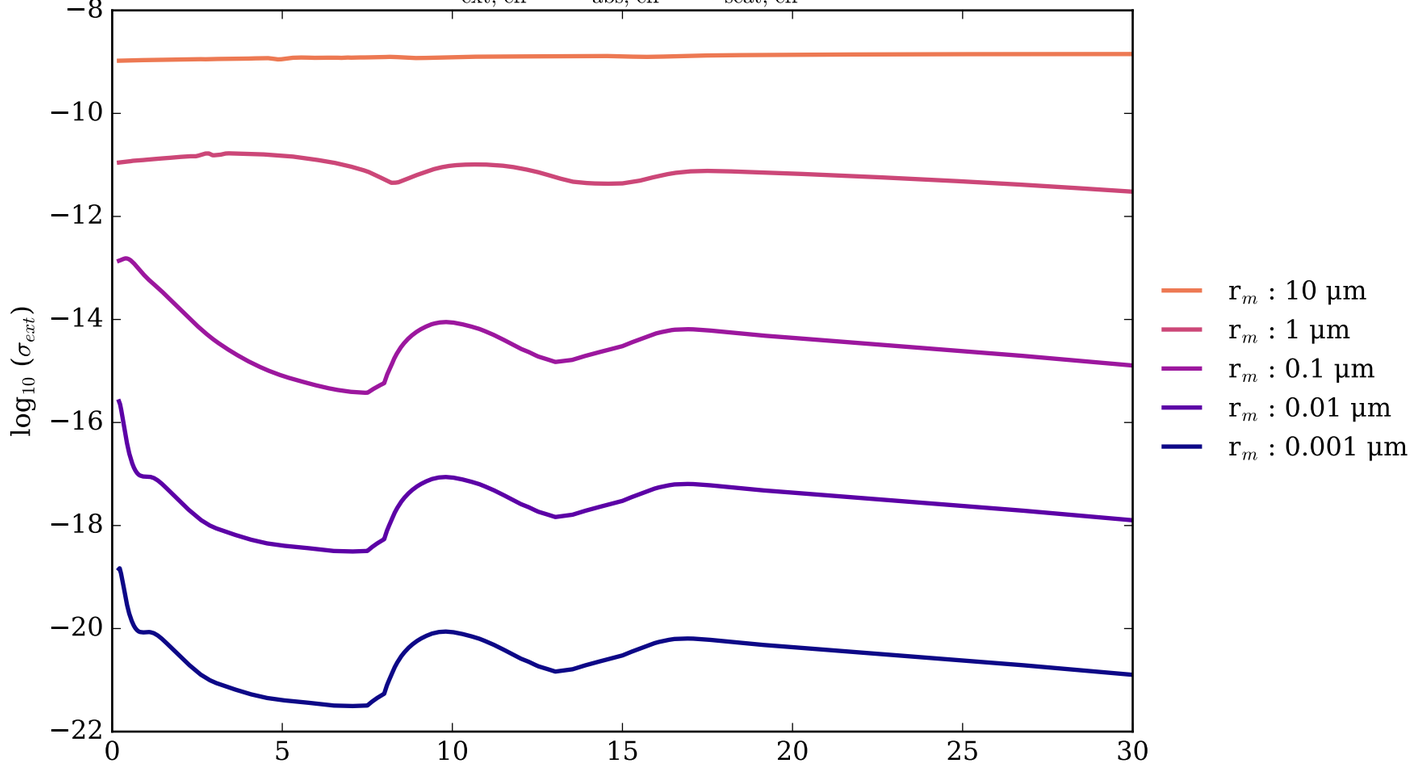


Refractive Indices for Mg8Fe12SiO4
(0.2, 30.0) μm

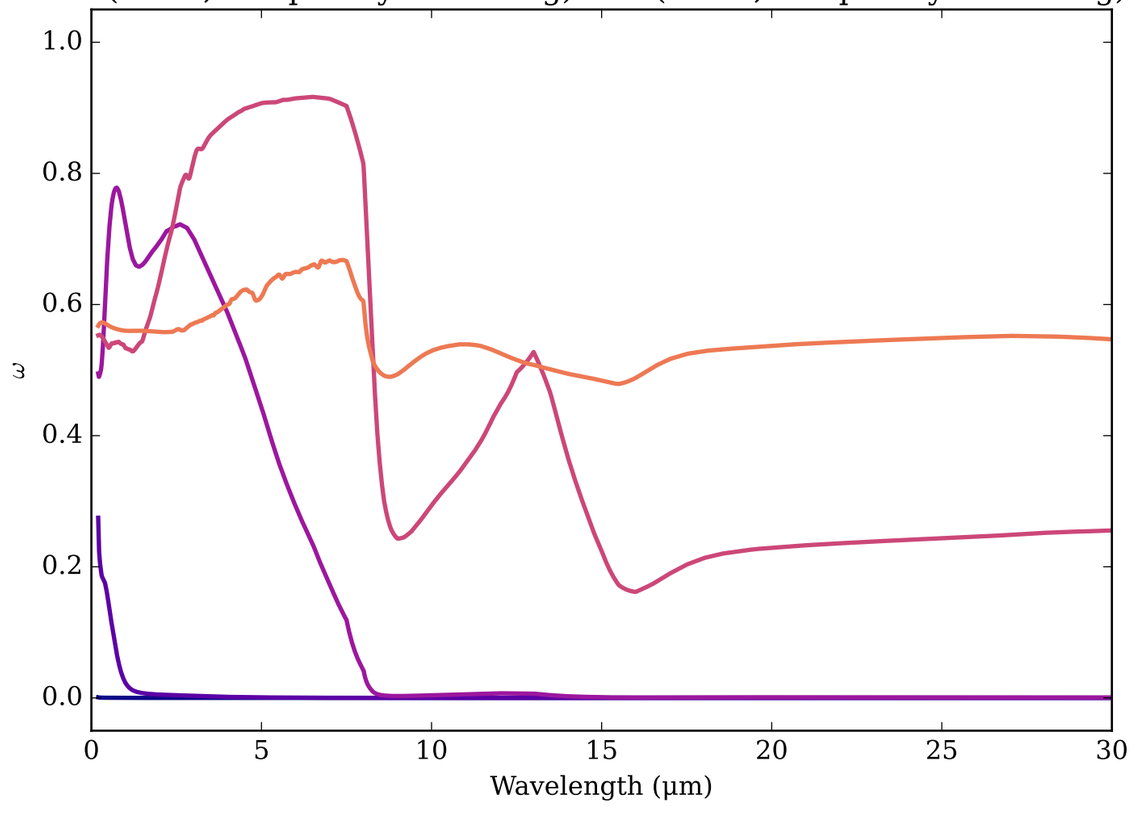


Mg8Fe12SiO4_amorph_glass Effective Extinction Cross Section

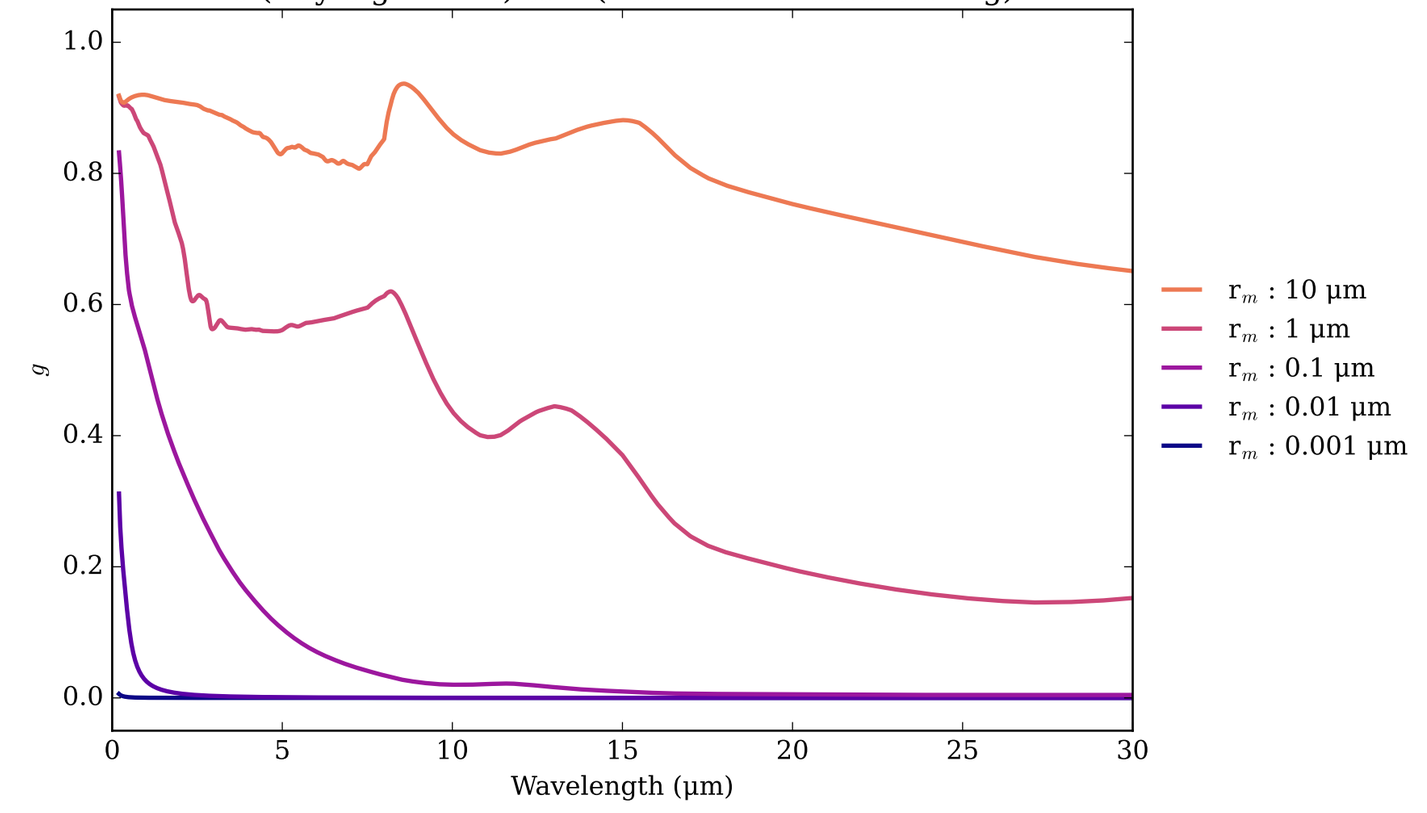
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



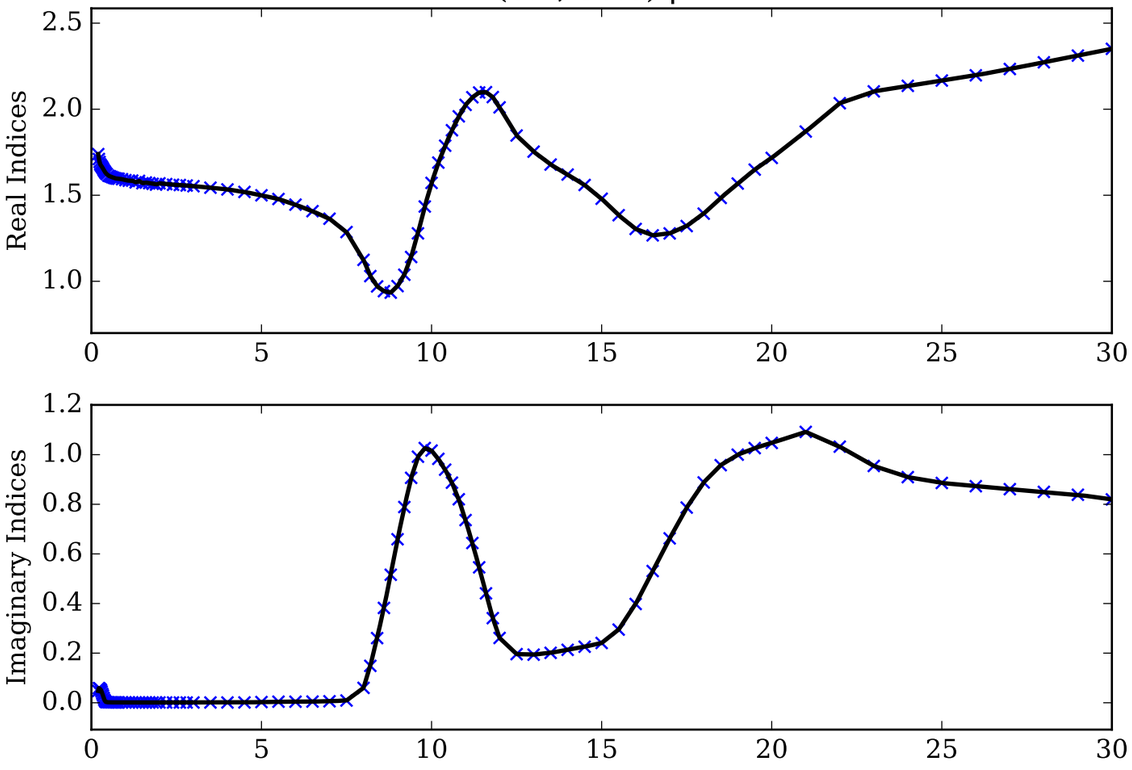
Mg8Fe12SiO4_amorph_glass Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Mg8Fe12SiO4_amorph_glass Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

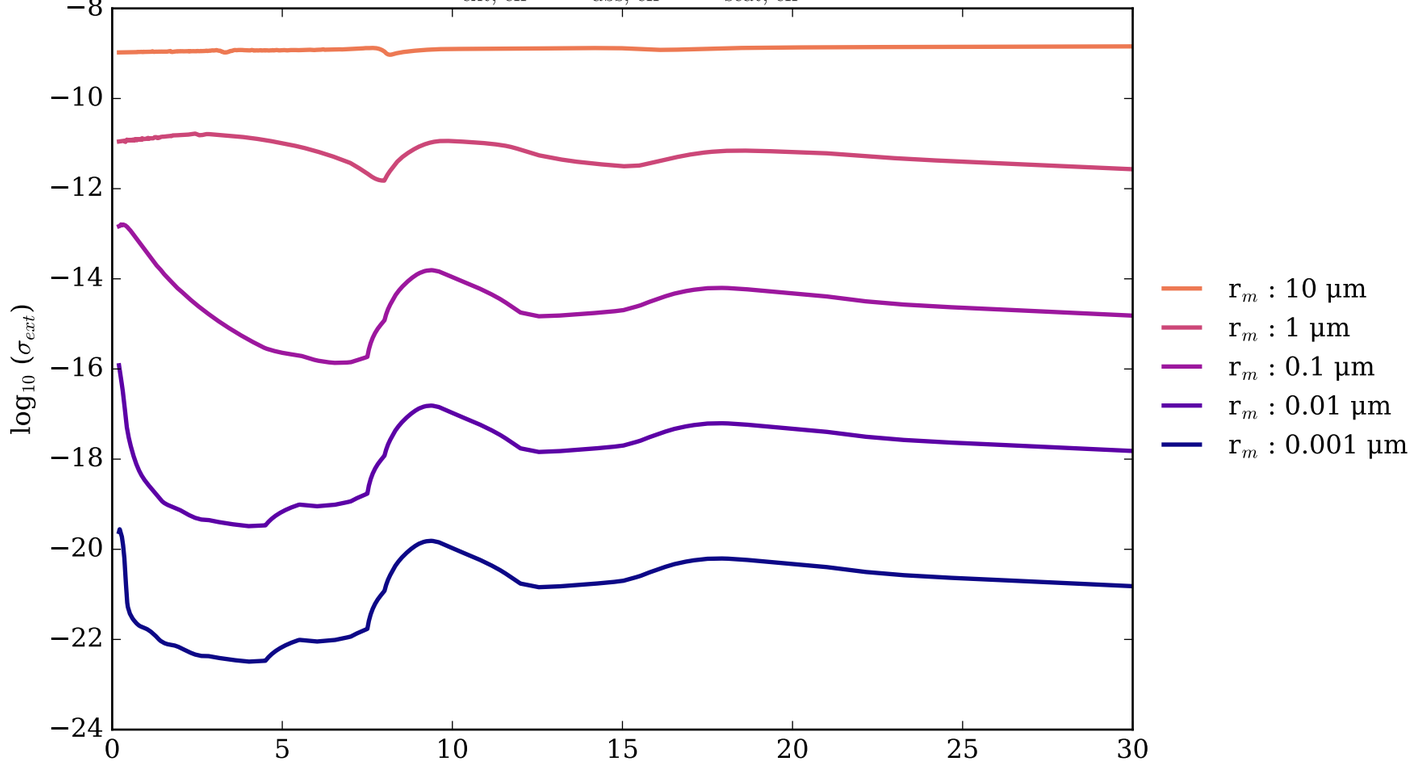


Refractive Indices for Mg8Fe2SiO3
(0.2, 30.0) μm

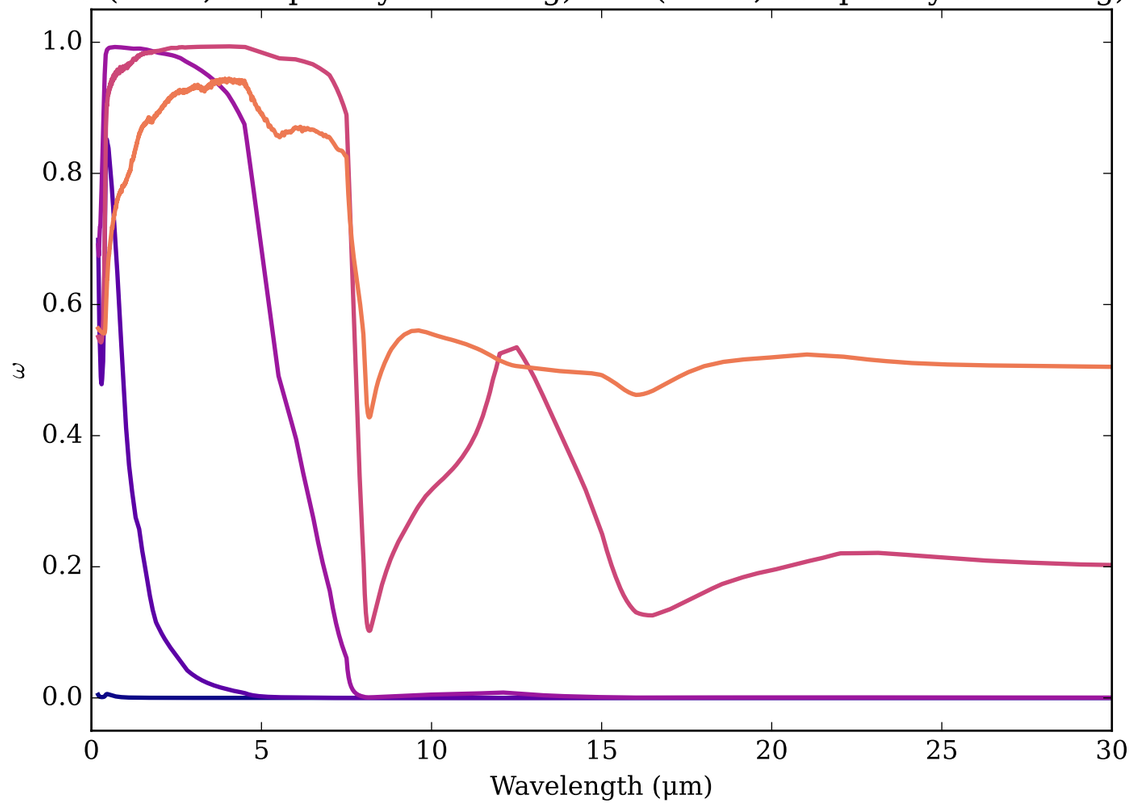


Mg8Fe2SiO3_amorph_glass Effective Extinction Cross Section

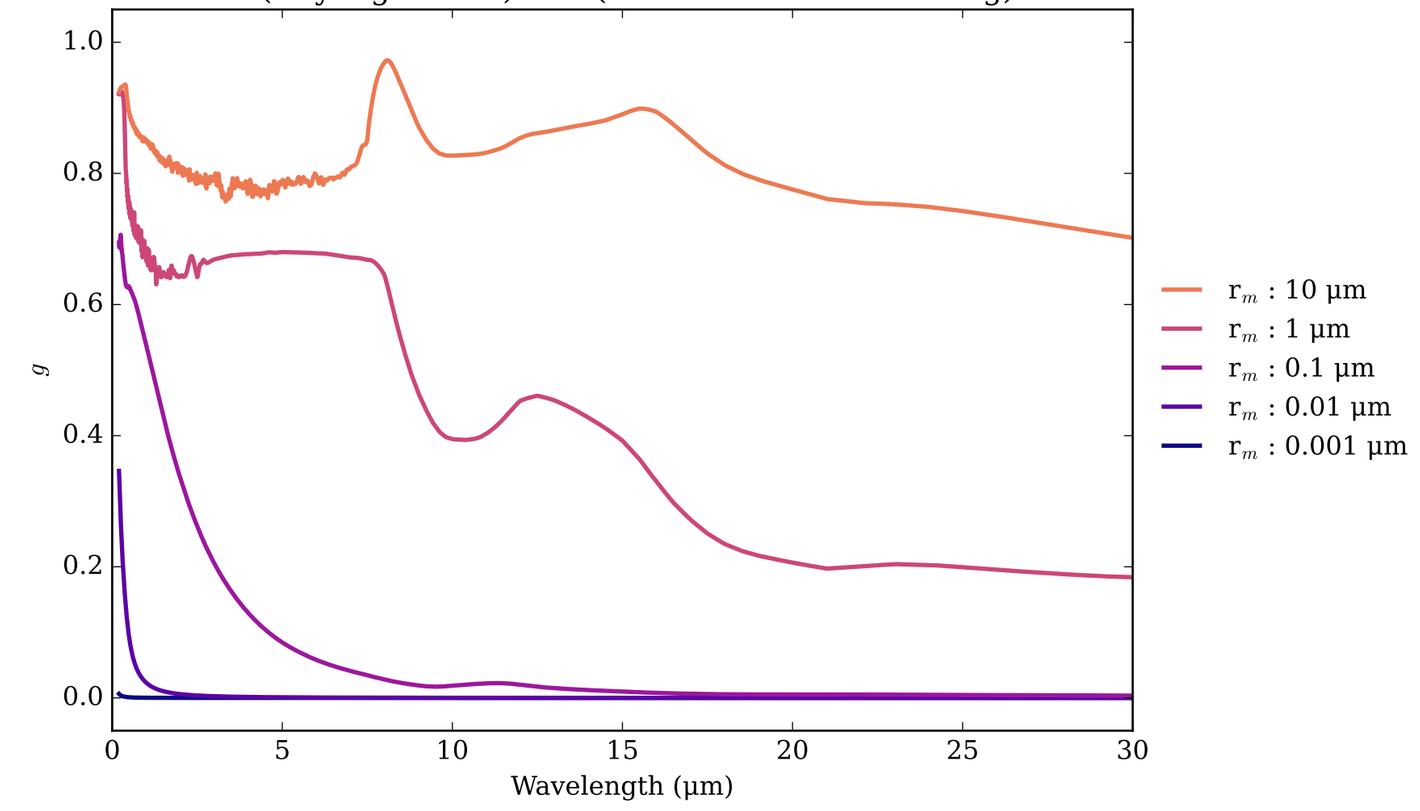
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



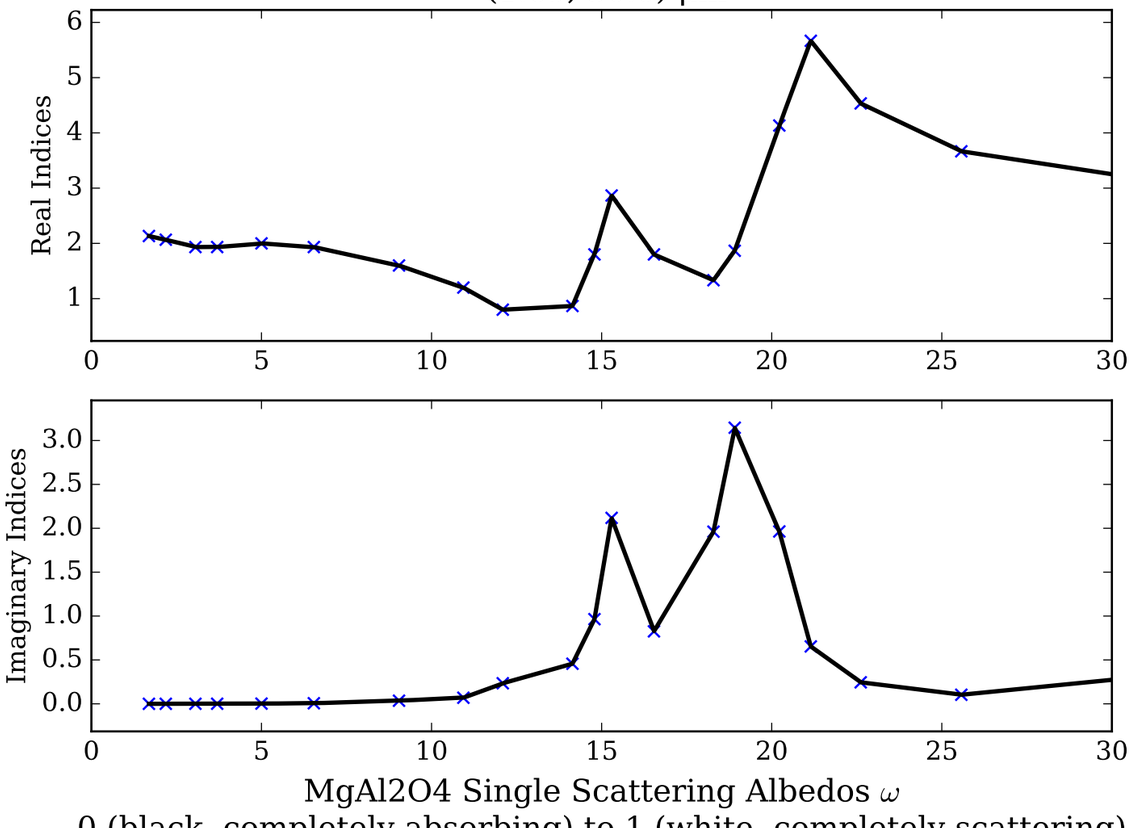
Mg8Fe2SiO3_amorph_glass Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Mg8Fe2SiO3_amorph_glass Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

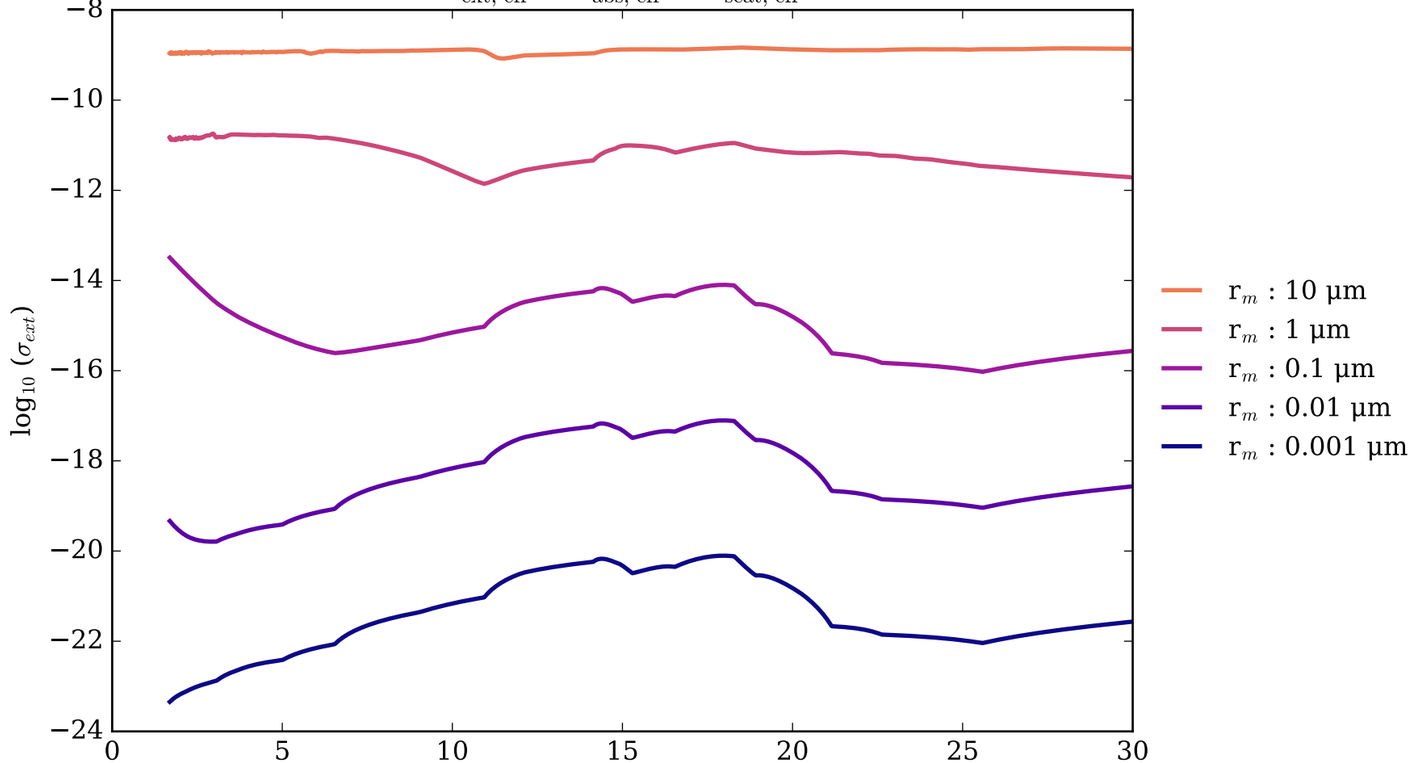


Refractive Indices for MgAl2O4
(1.69, 30.0) μm

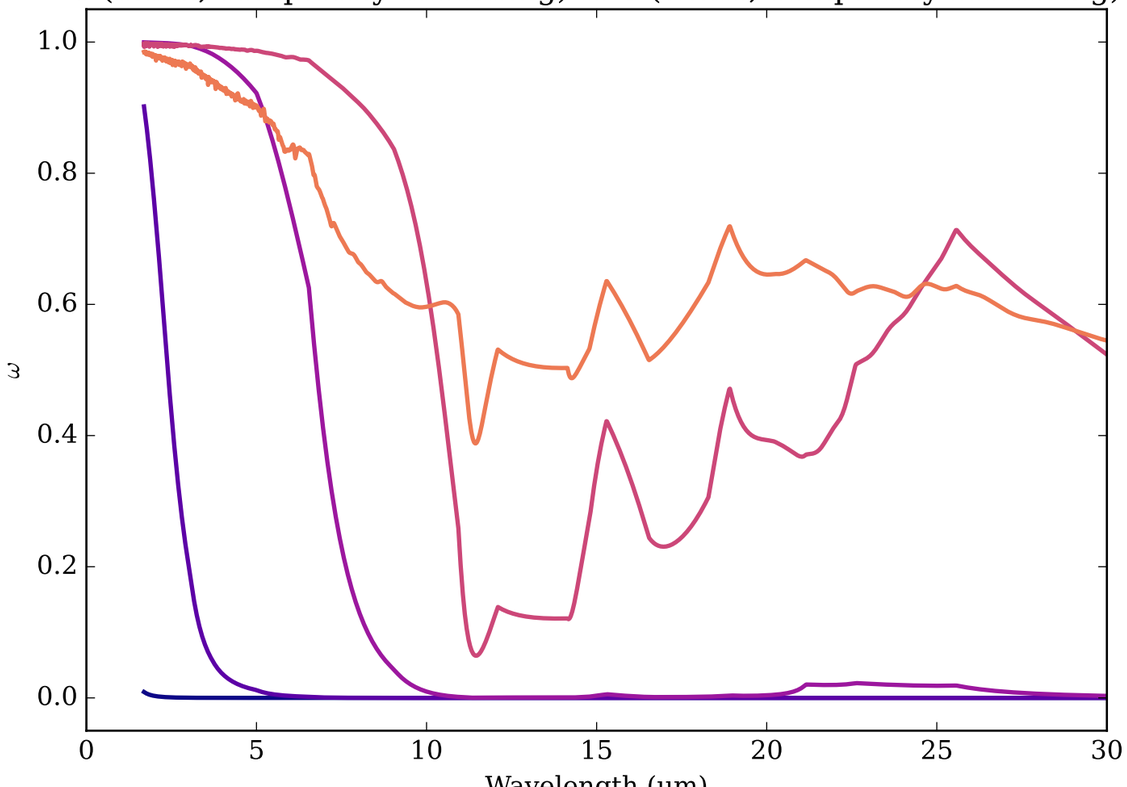


MgAl2O4 Effective Extinction Cross Section

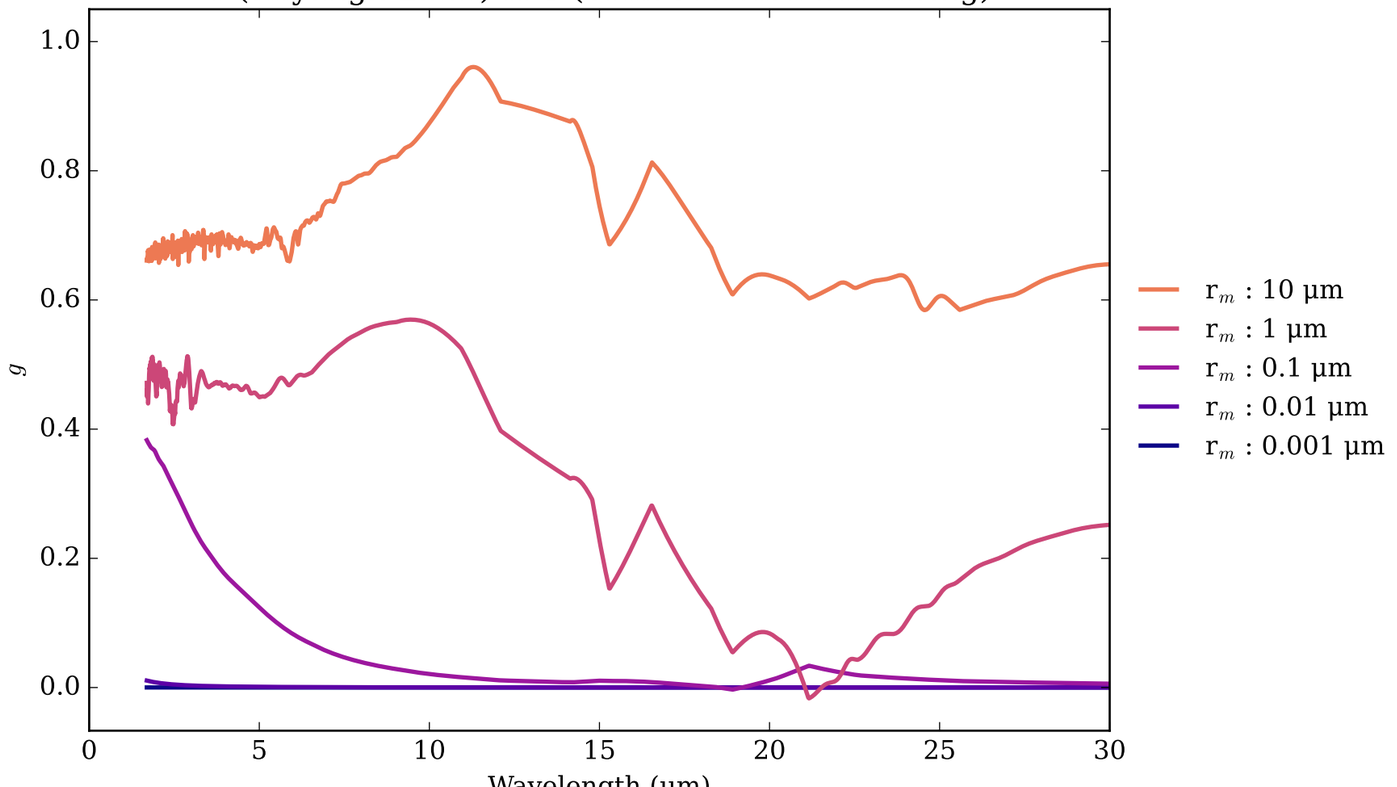
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



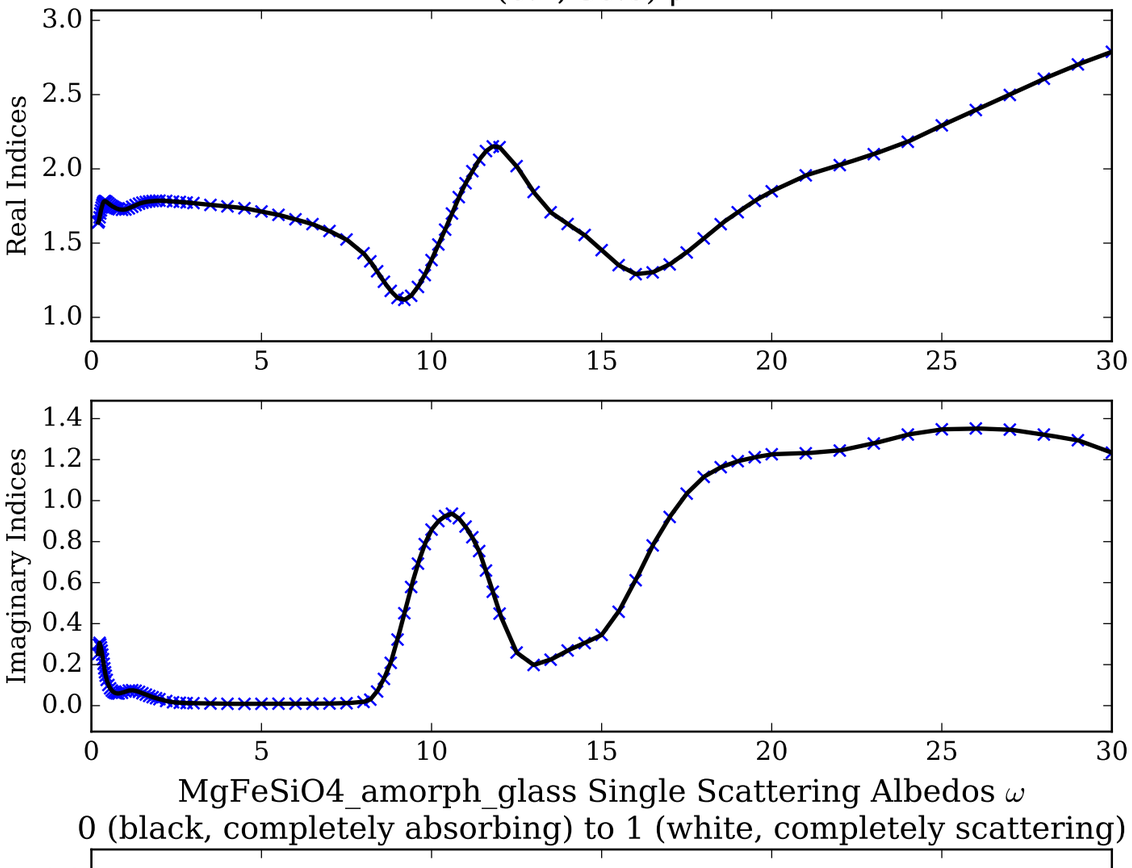
MgAl2O4 Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



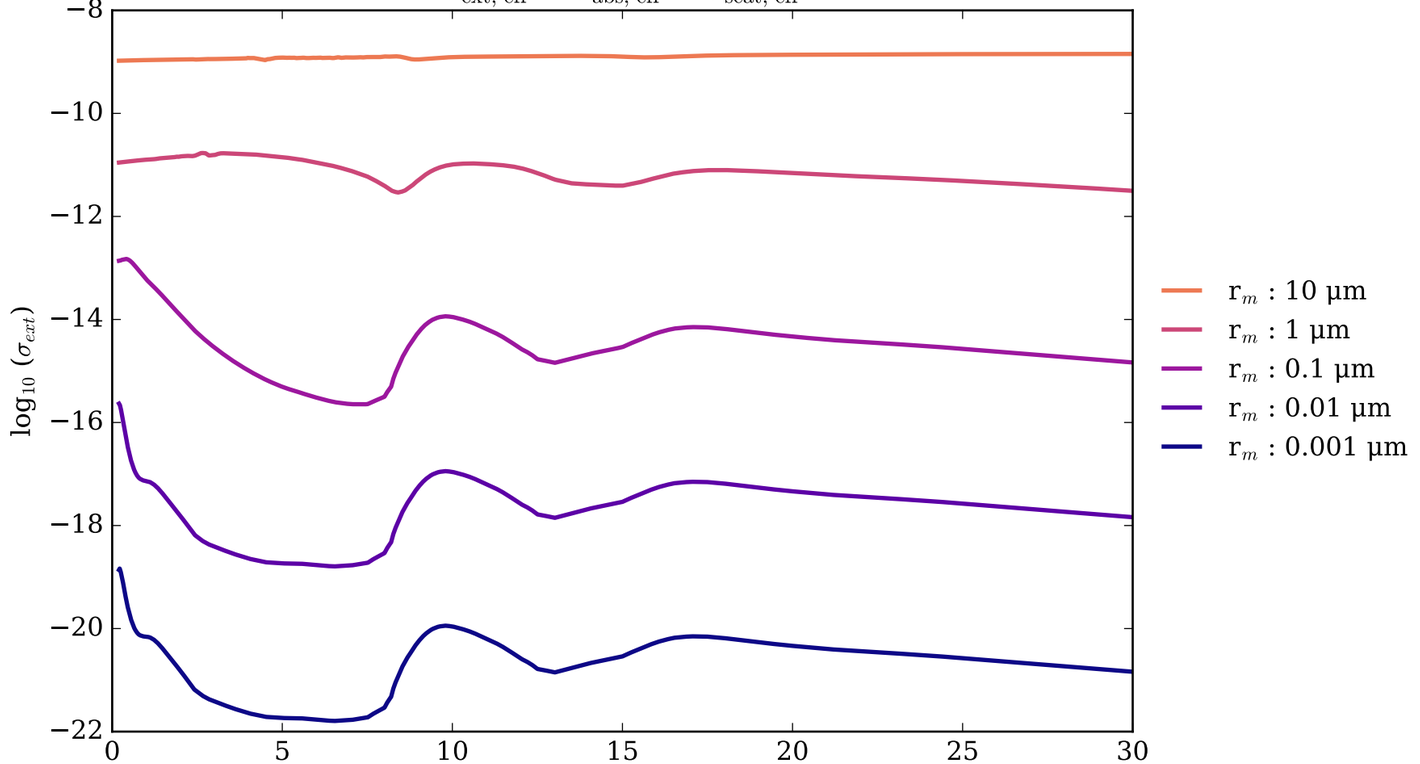
MgAl2O4 Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



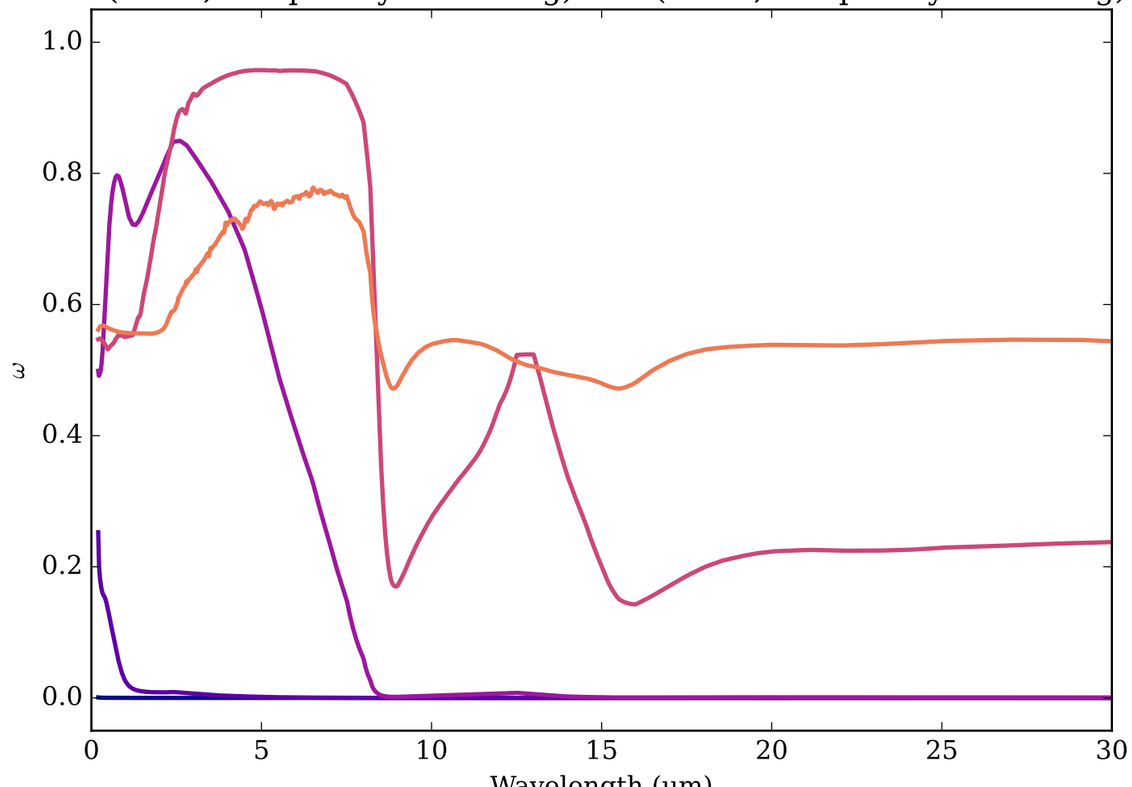
Refractive Indices for MgFeSiO4
(0.2, 30.0) μm



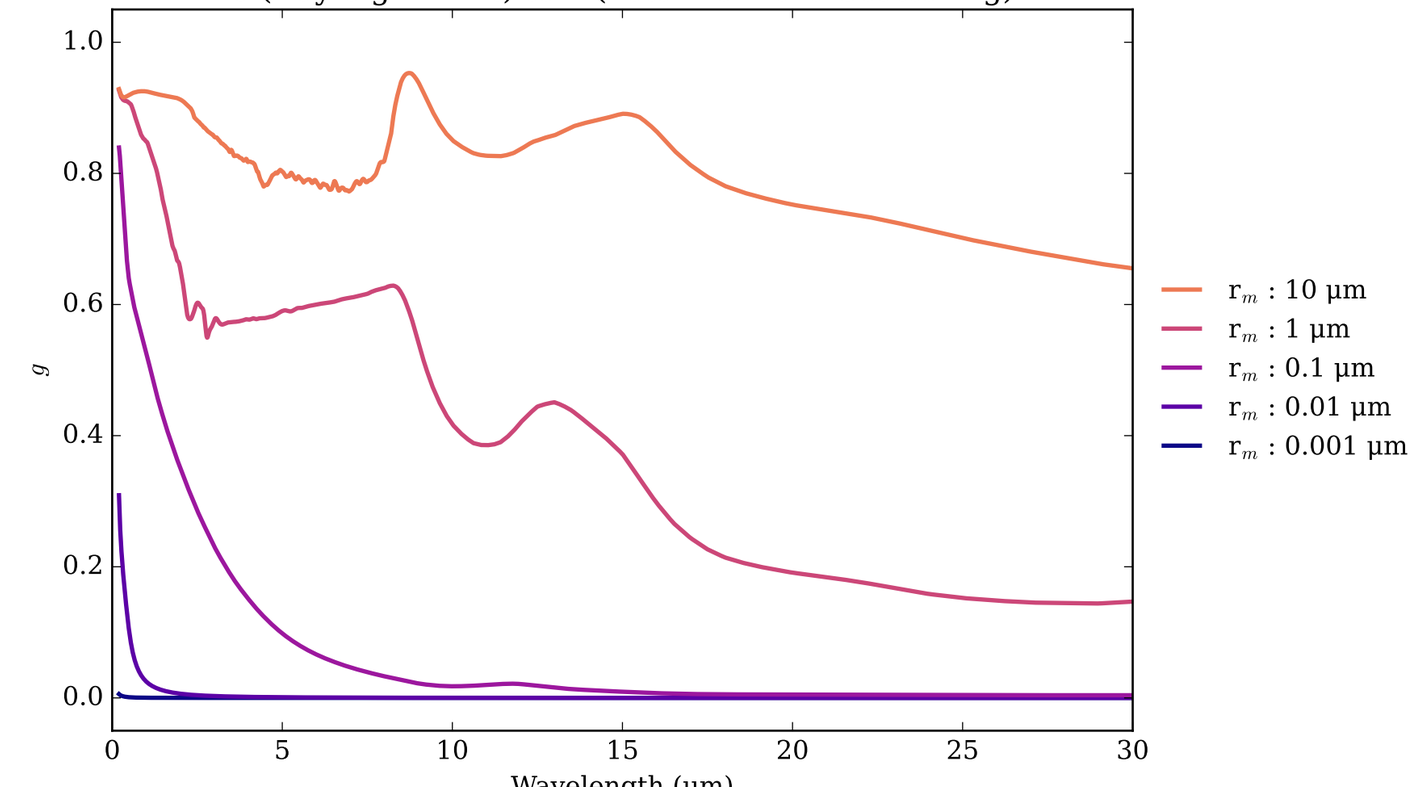
MgFeSiO4_amorph_glass Effective Extinction Cross Section
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



MgFeSiO4_amorph_glass Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



MgFeSiO4_amorph_glass Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



Refractive Indices for MgO
(0.2, 30.0) μm

Real Indices

Imaginary Indices

MgO Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

MgO Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

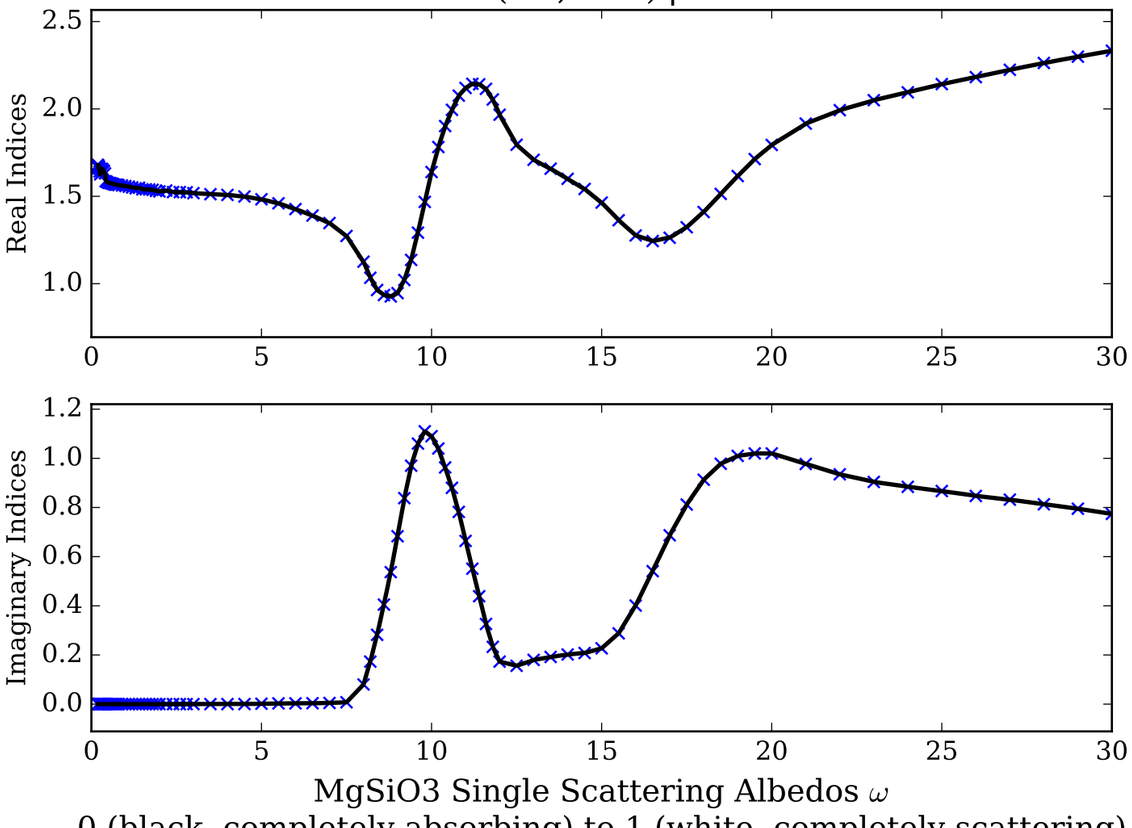
Wavelength (μm)

MgO Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

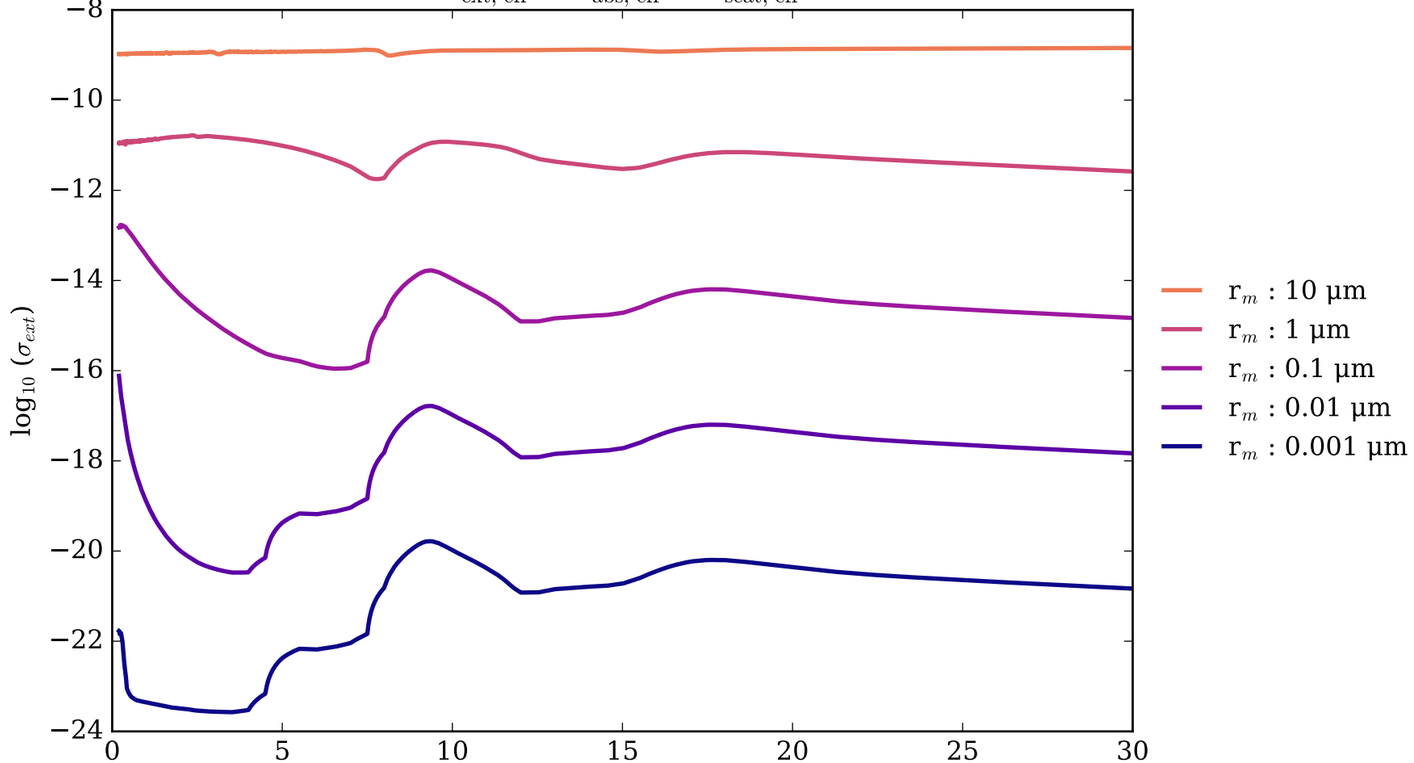
Wavelength (μm)

Refractive Indices for MgSiO3
(0.2, 30.0) μm

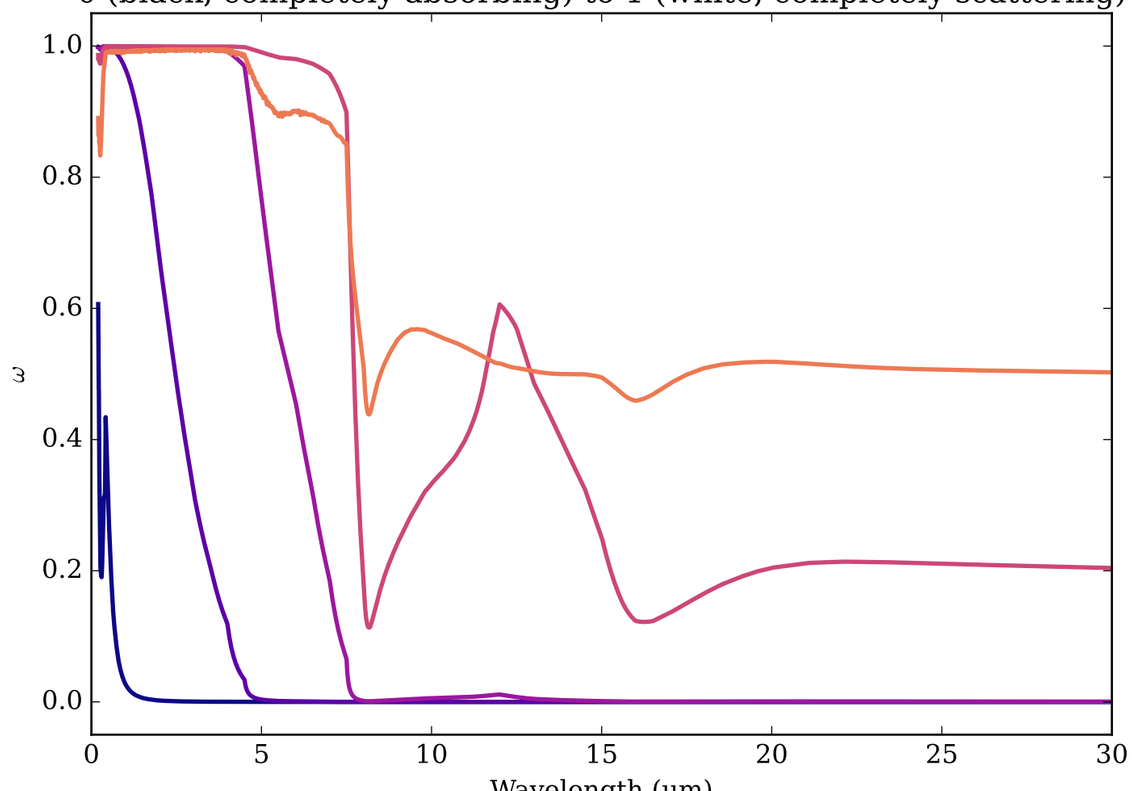


MgSiO3 Effective Extinction Cross Section

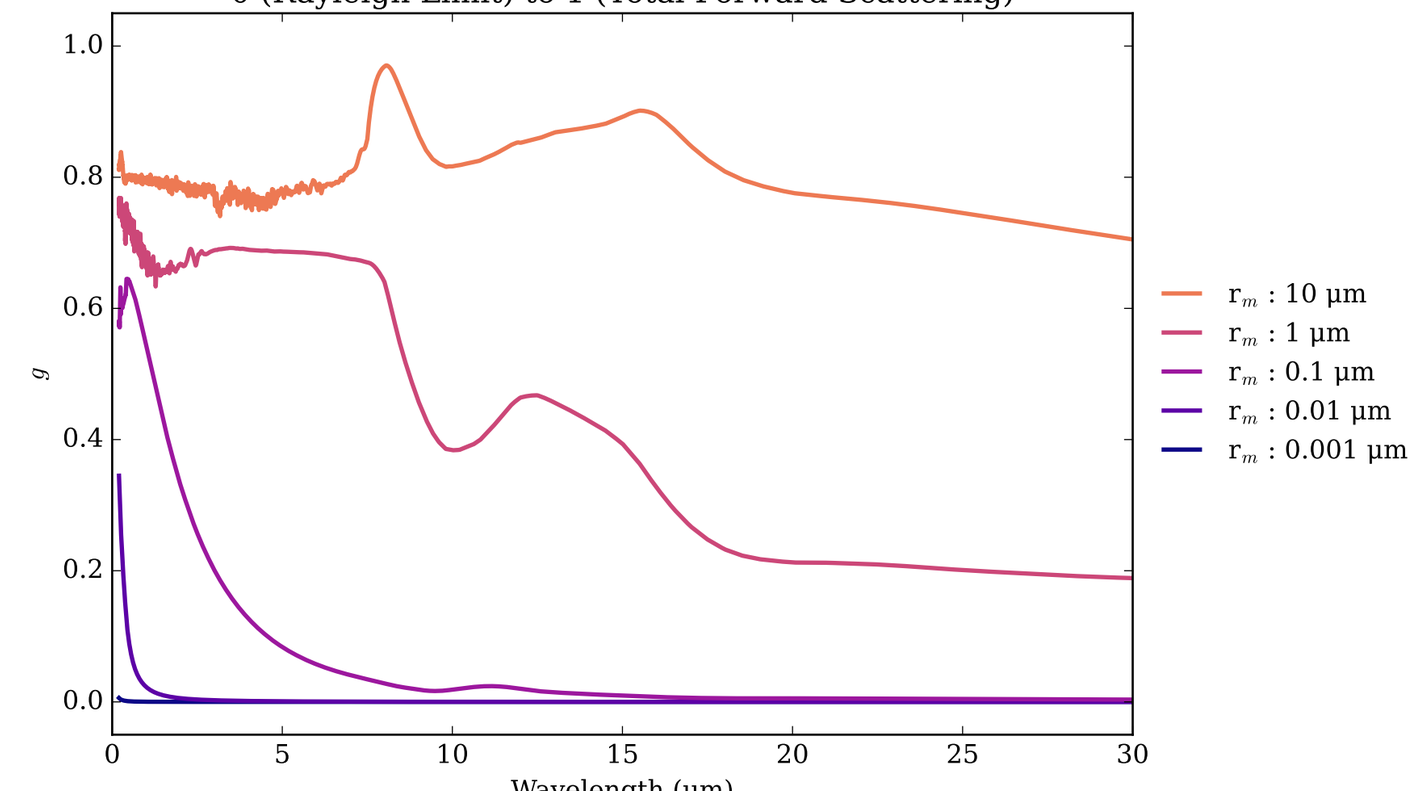
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



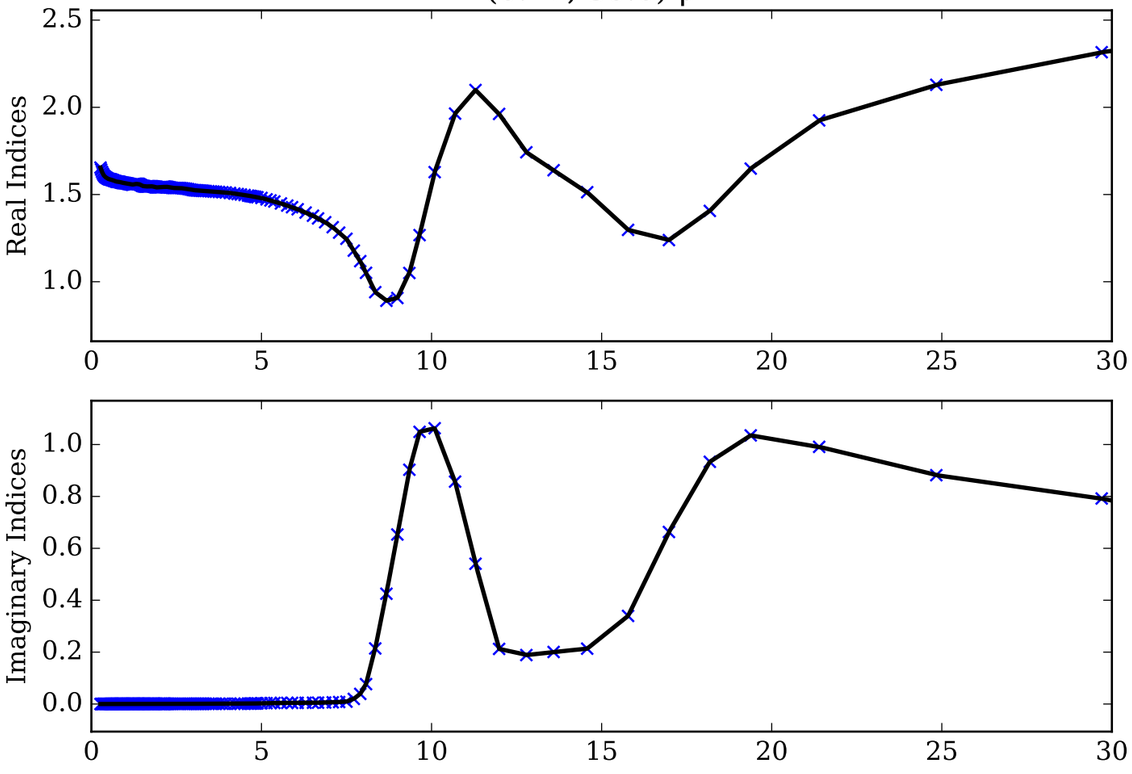
MgSiO3 Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



MgSiO3 Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

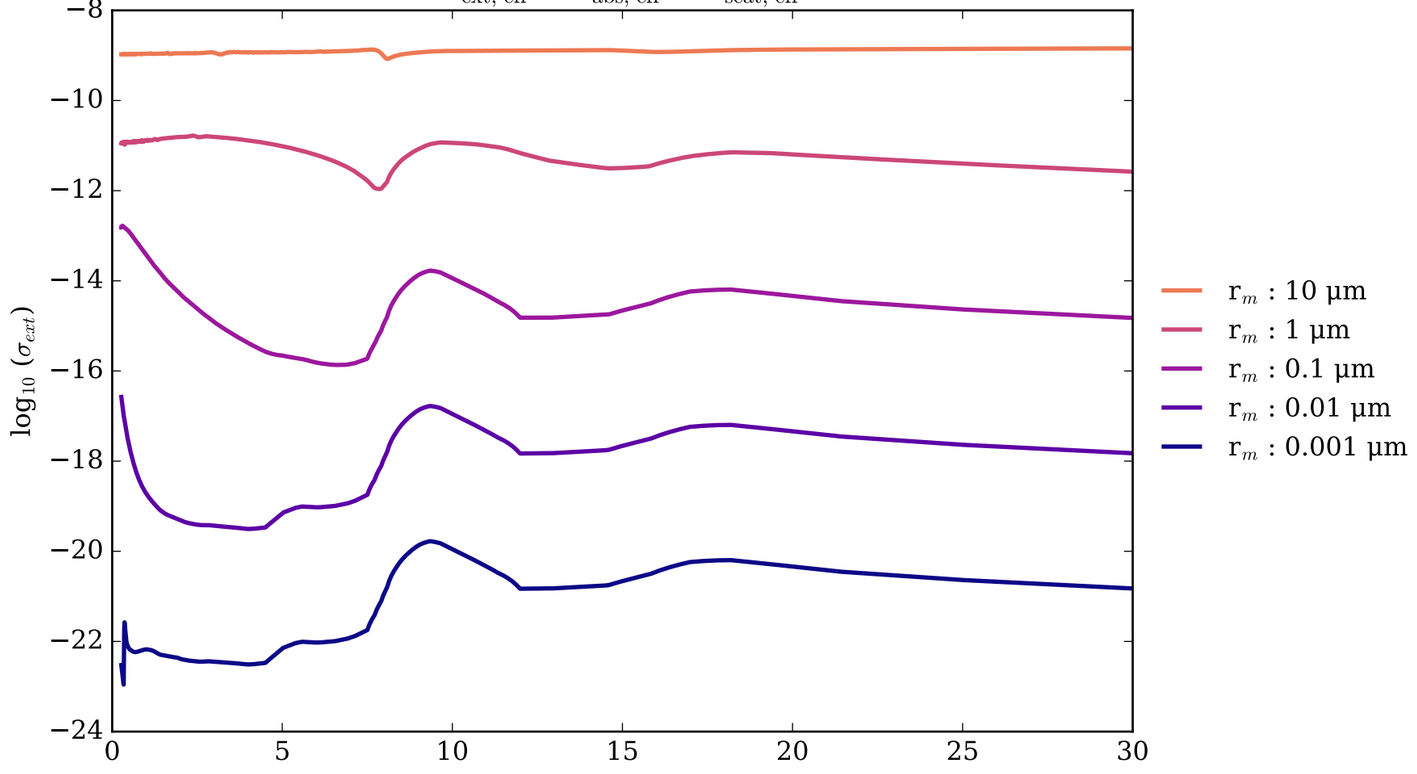


Refractive Indices for MgSiO3
(0.27, 30.0) μm

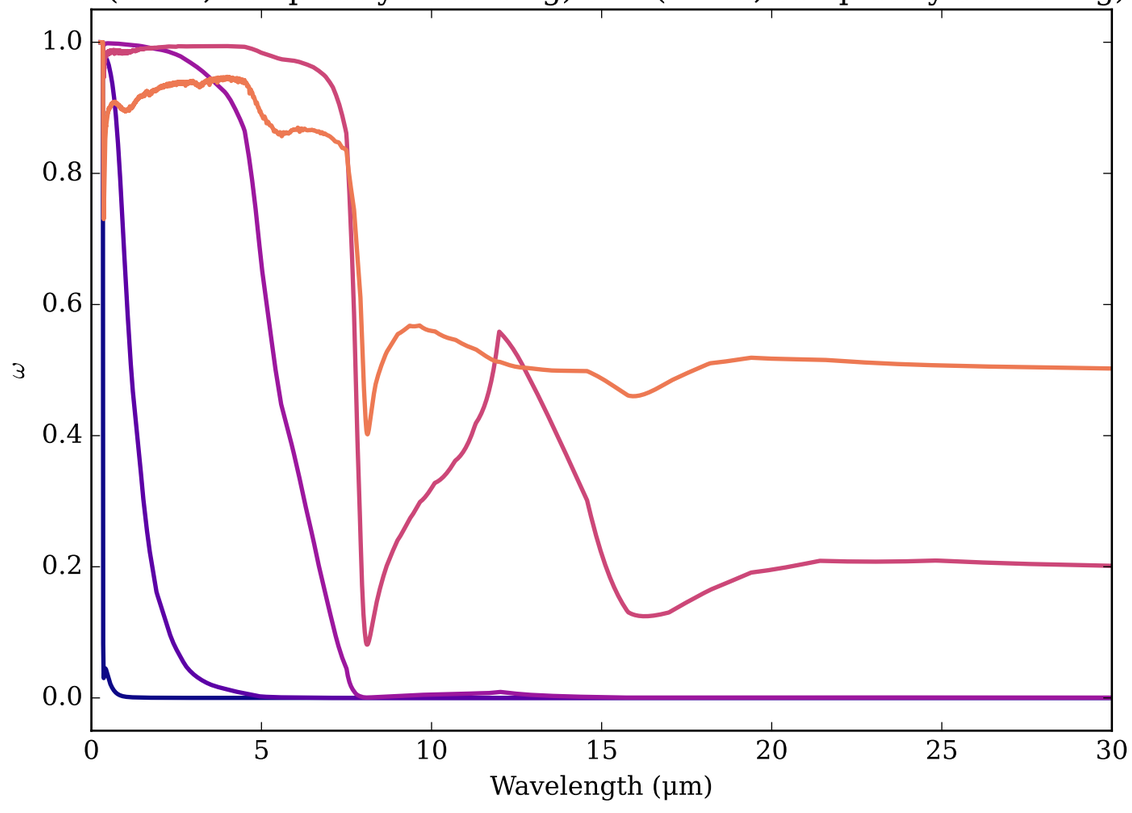


MgSiO3_amorph Effective Extinction Cross Section

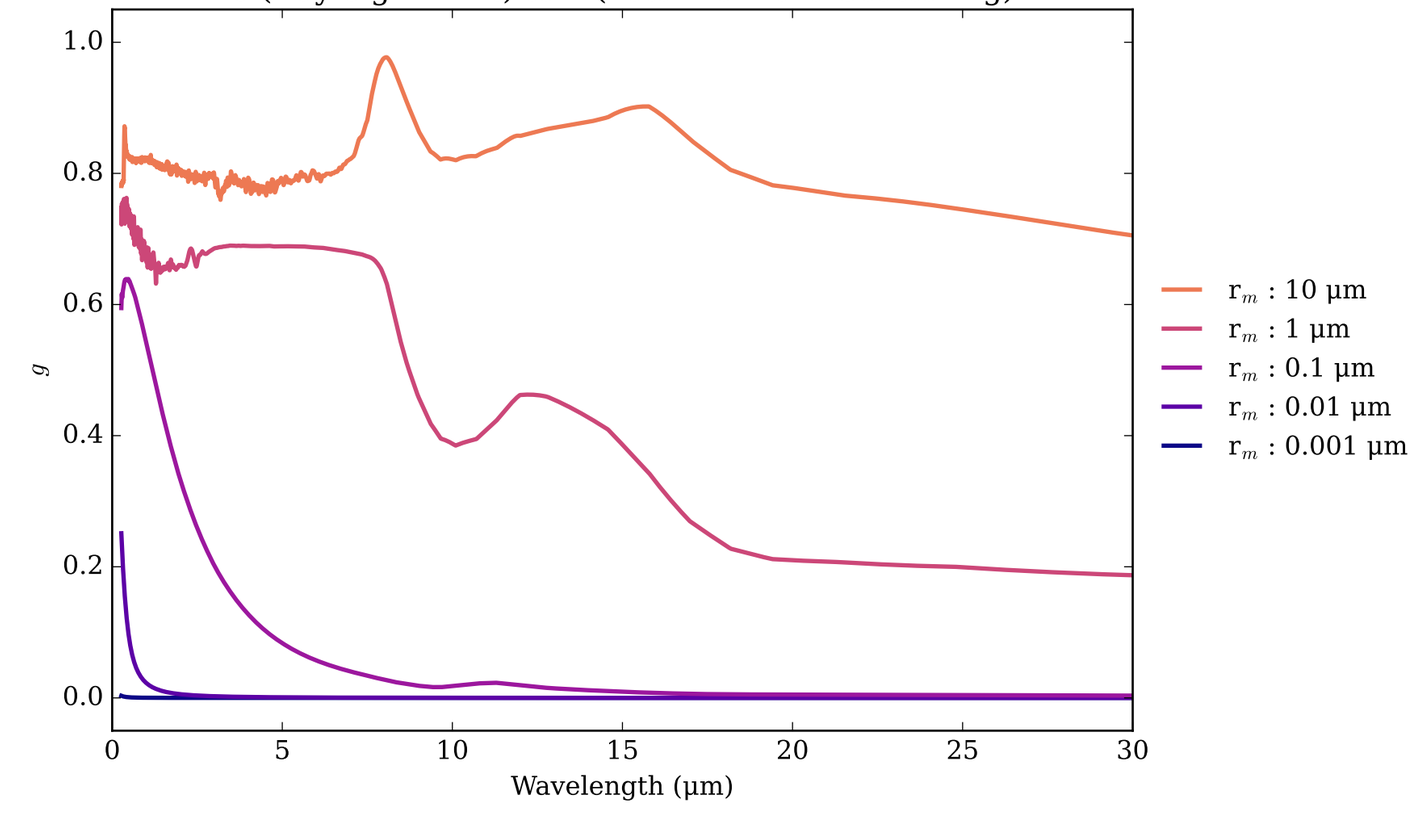
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



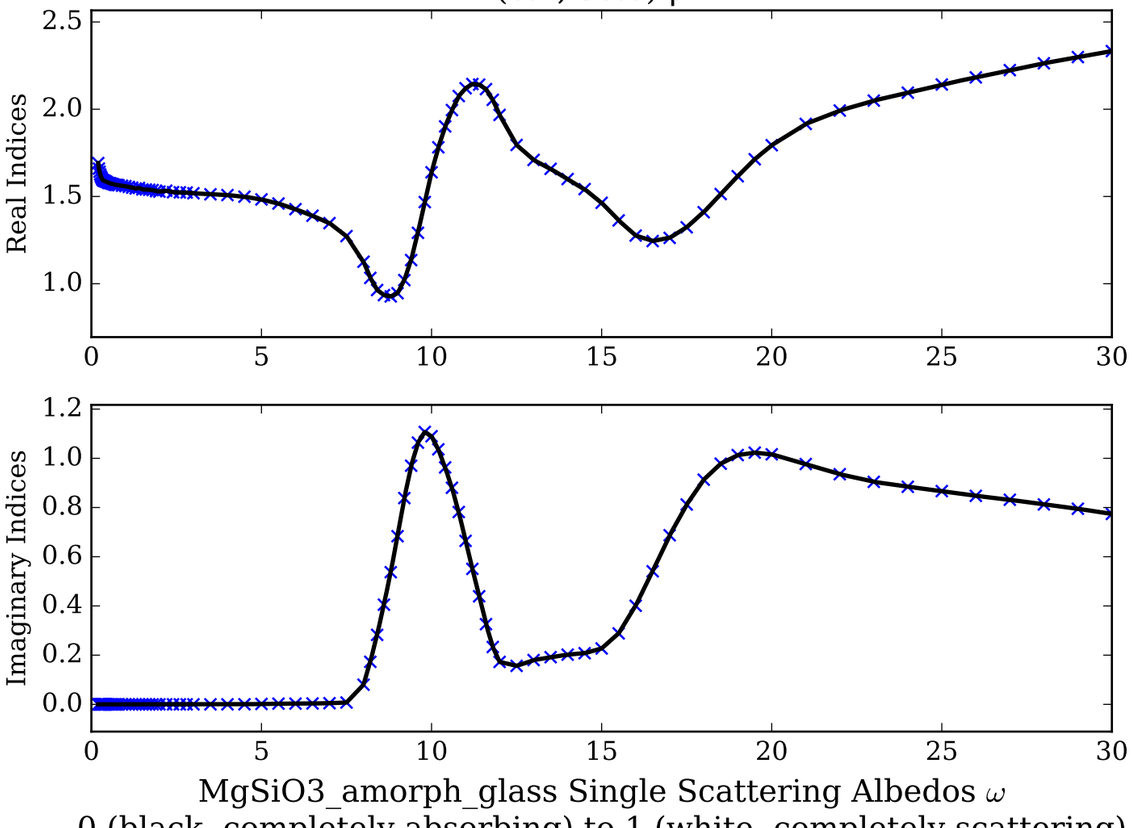
MgSiO3_amorph Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



MgSiO3_amorph Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

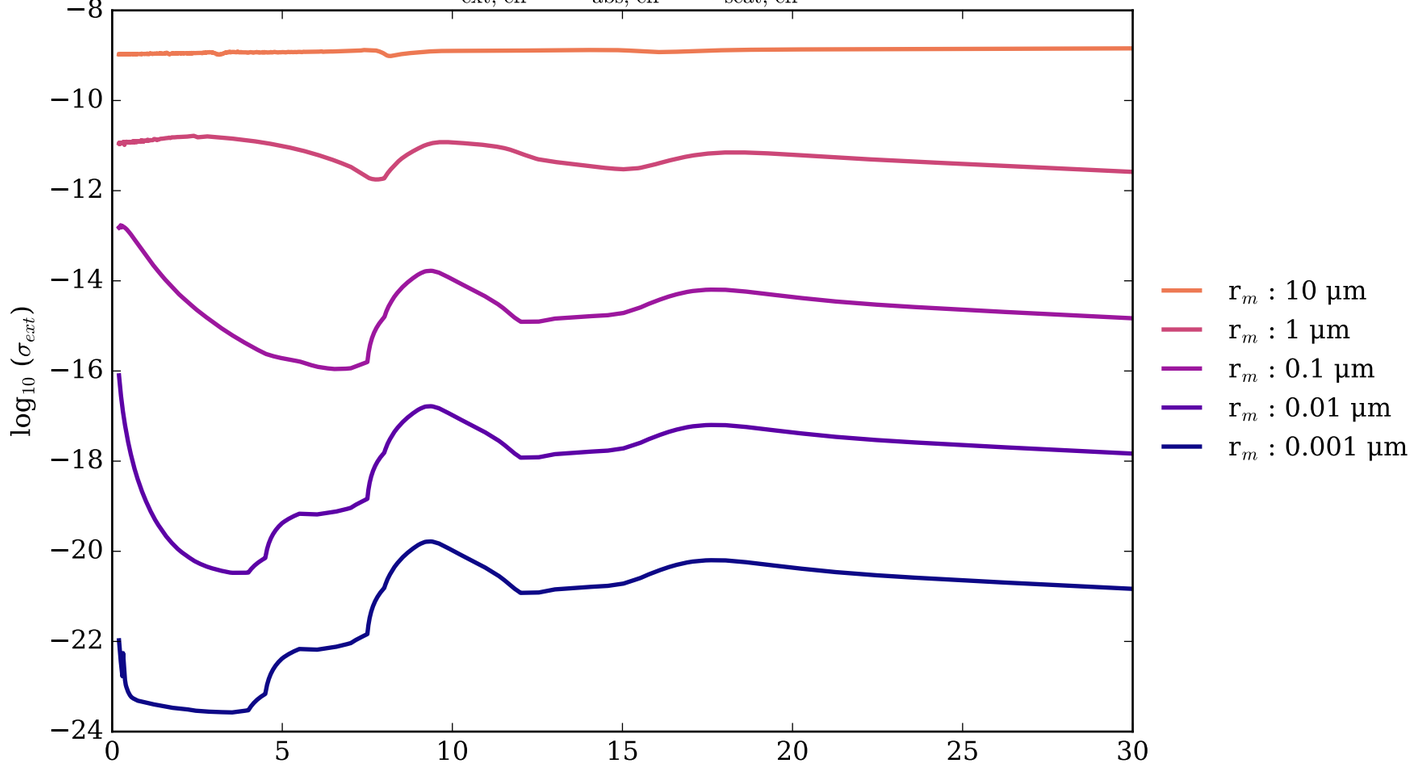


Refractive Indices for MgSiO3
(0.2, 30.0) μm

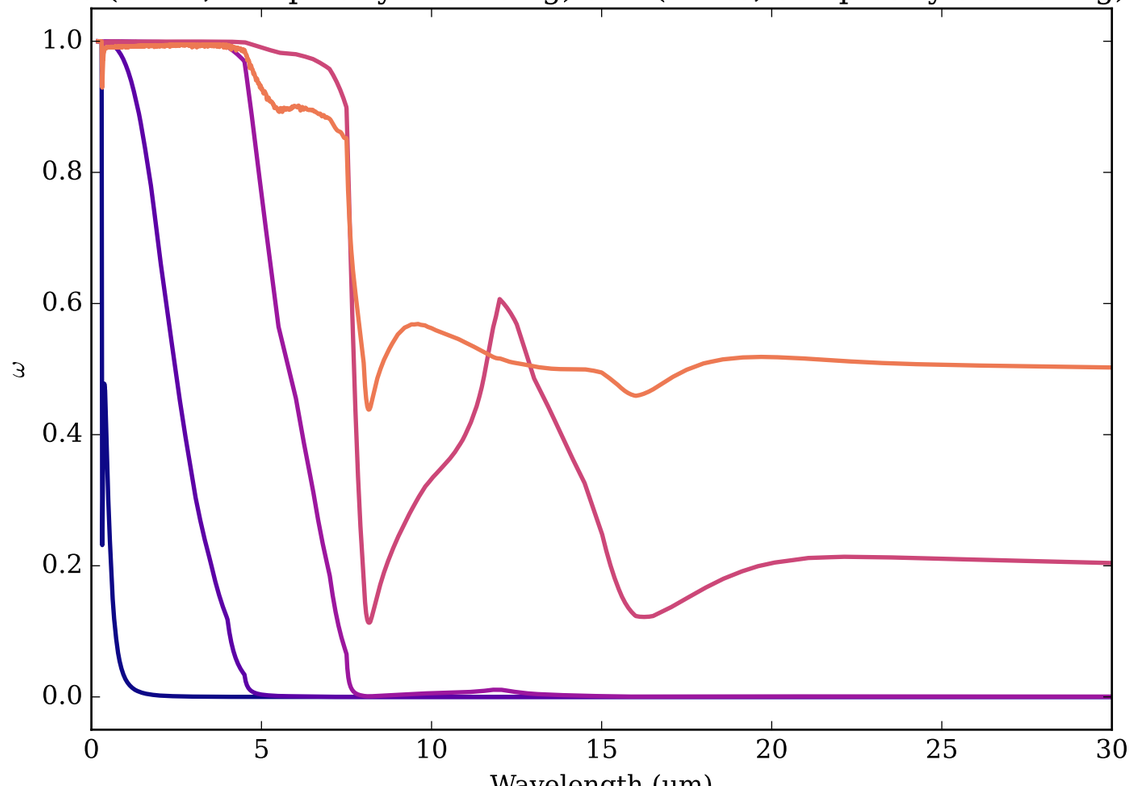


MgSiO3_amorph_glass Effective Extinction Cross Section

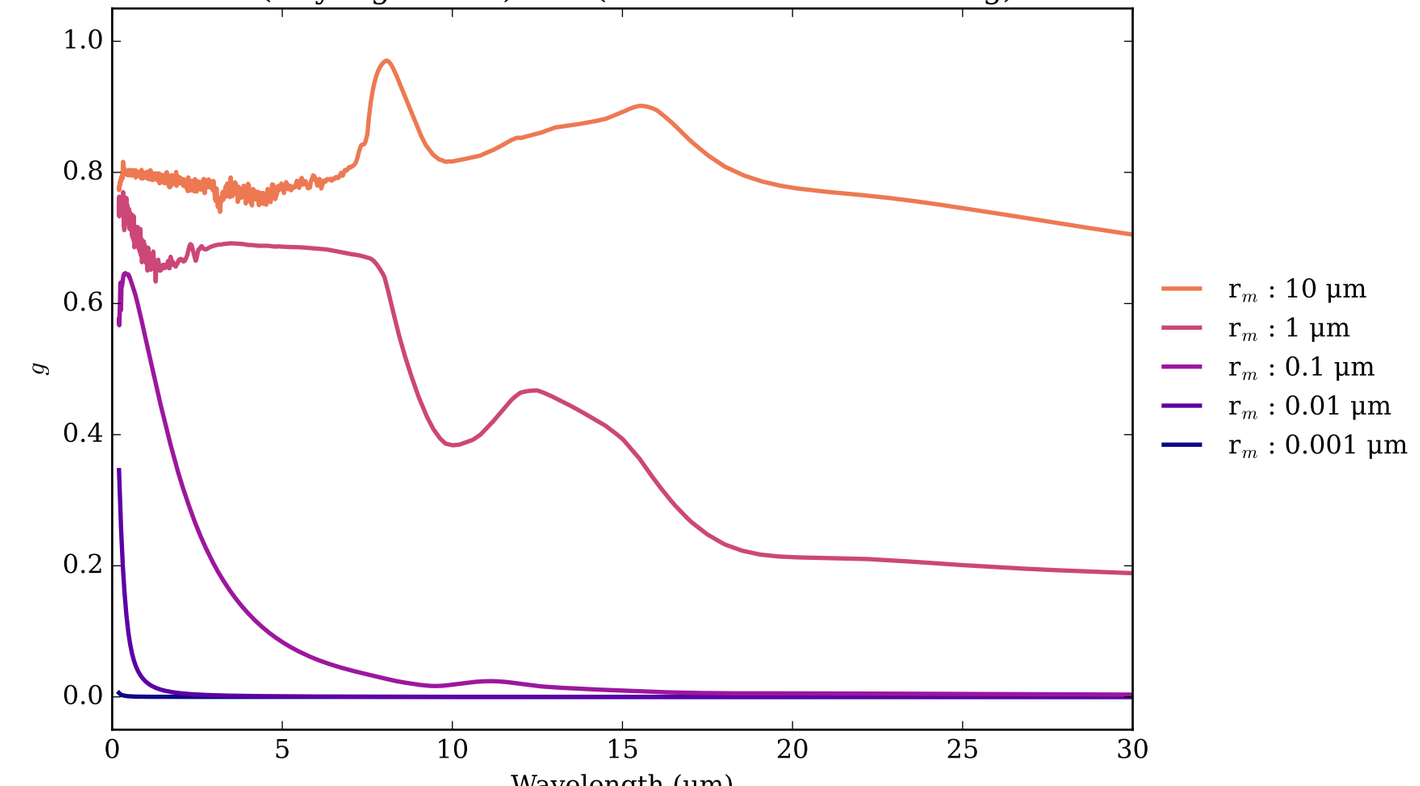
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



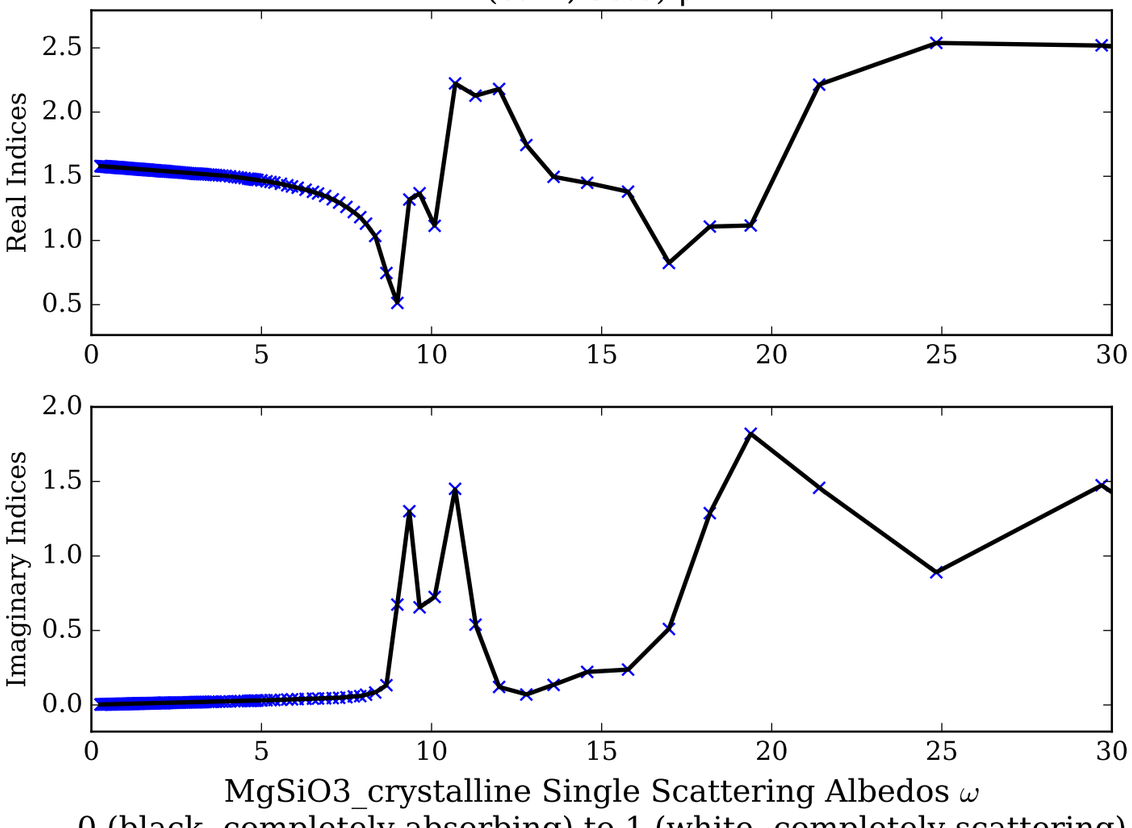
MgSiO3_amorph_glass Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



MgSiO3_amorph_glass Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

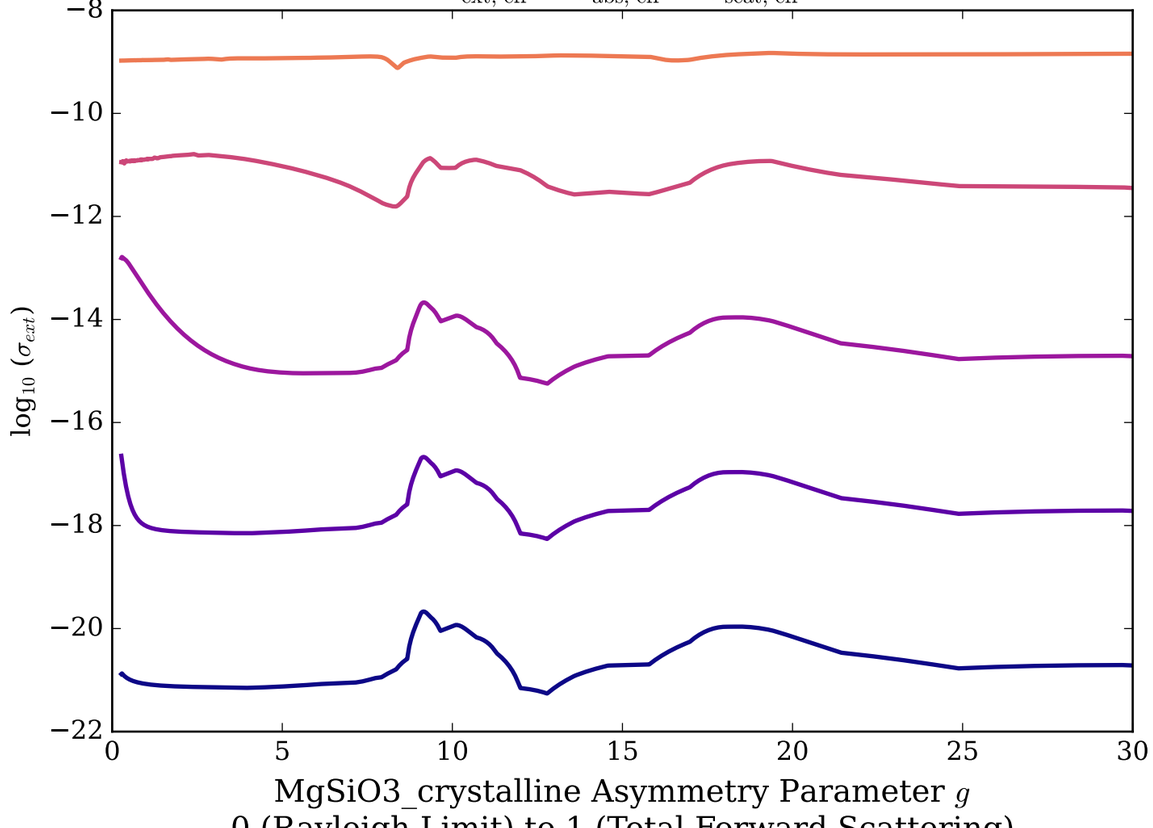


Refractive Indices for MgSiO3
(0.27, 30.0) μm

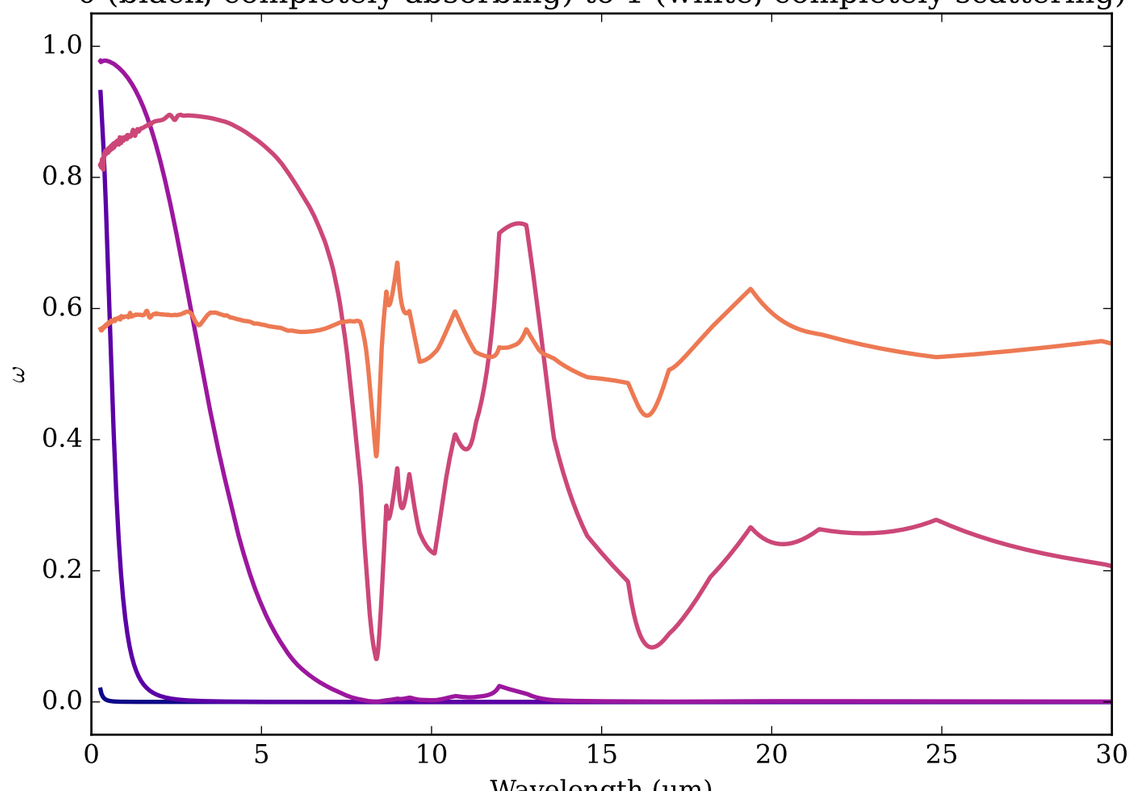


MgSiO3_crystalline Effective Extinction Cross Section

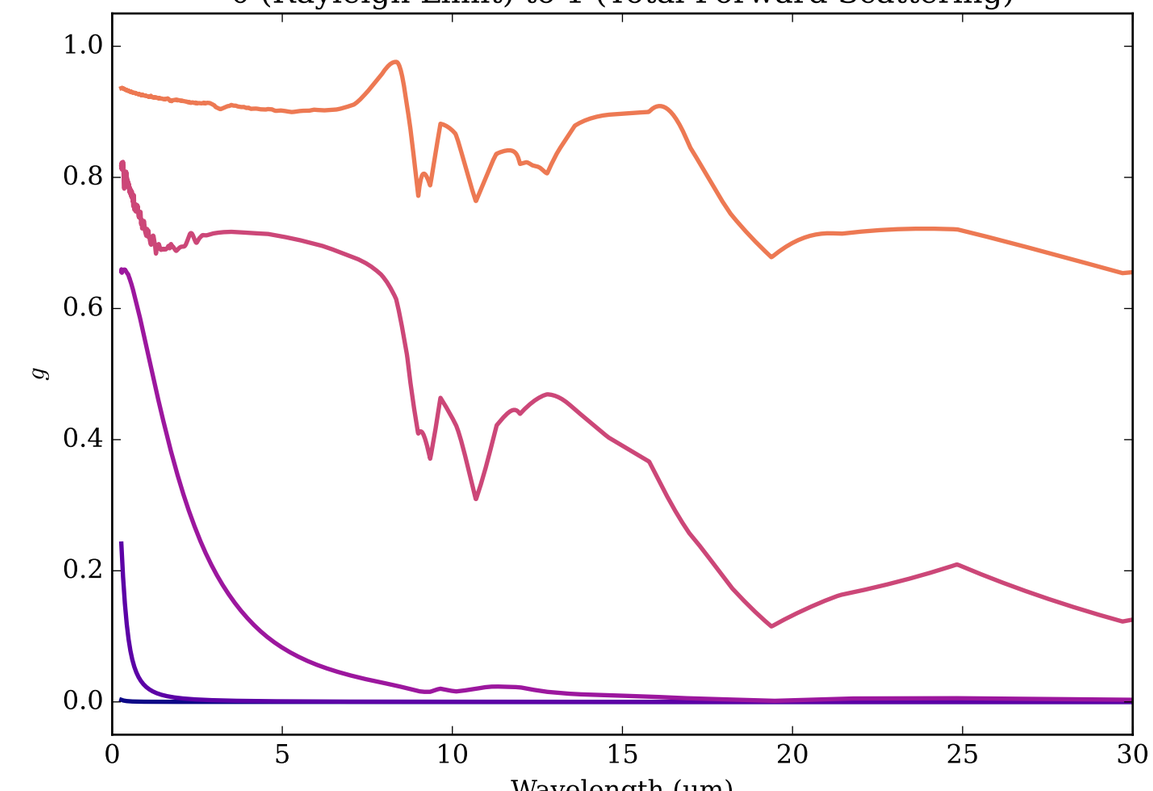
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



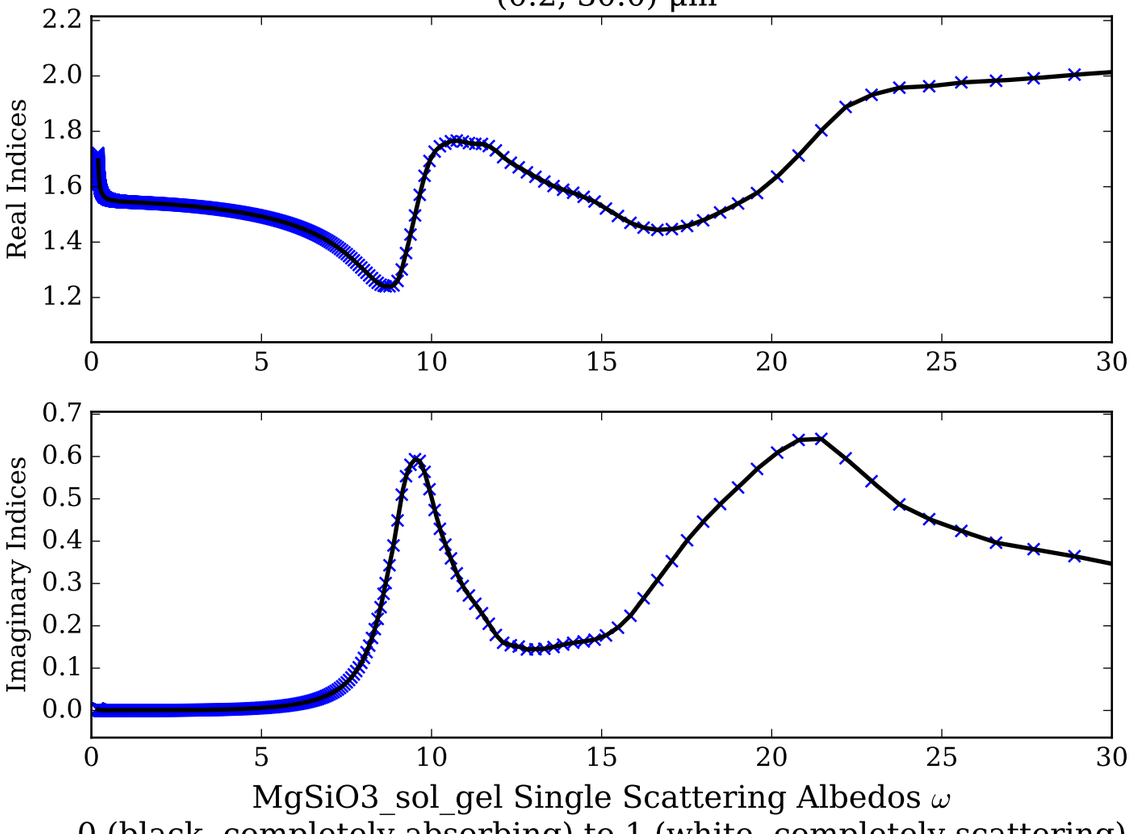
MgSiO3_crystalline Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



MgSiO3_crystalline Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

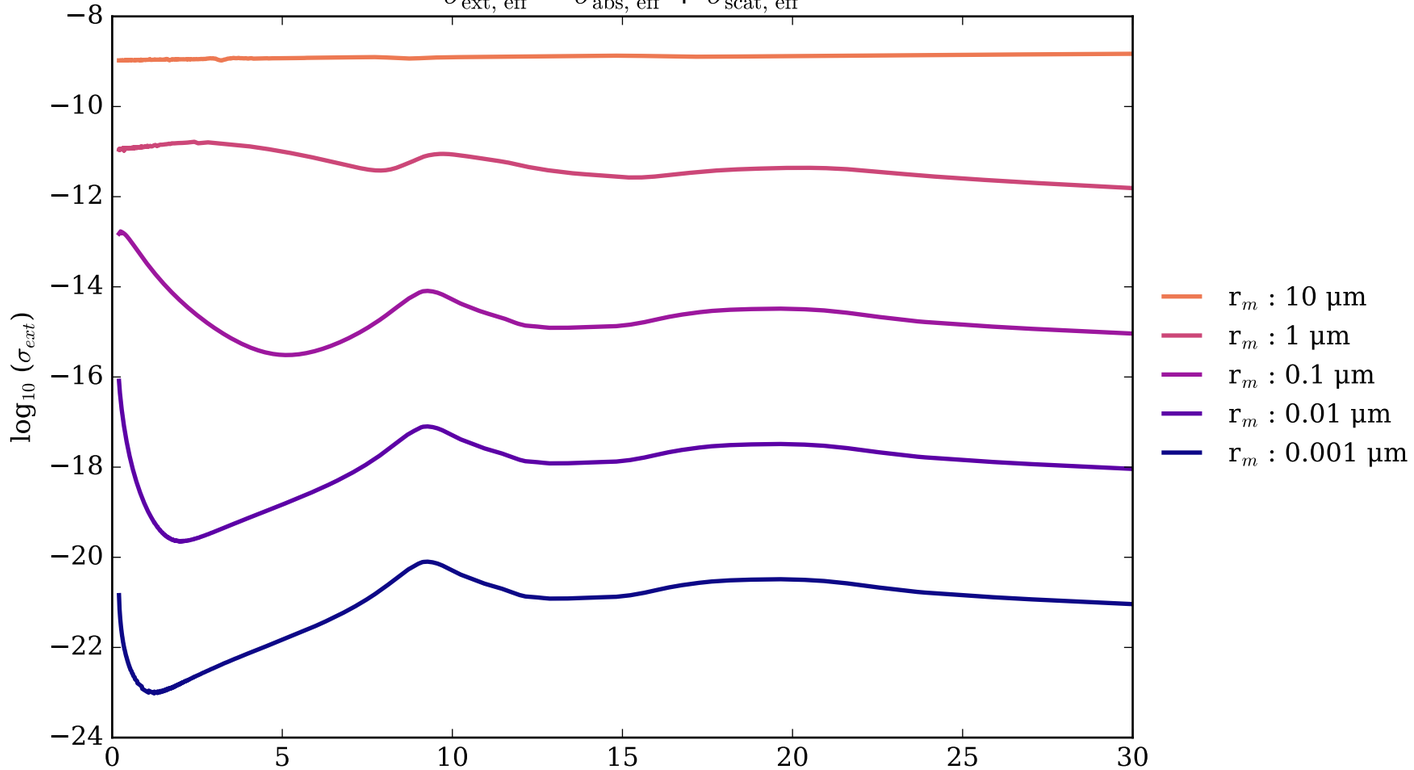


Refractive Indices for MgSiO3
(0.2, 30.0) μm

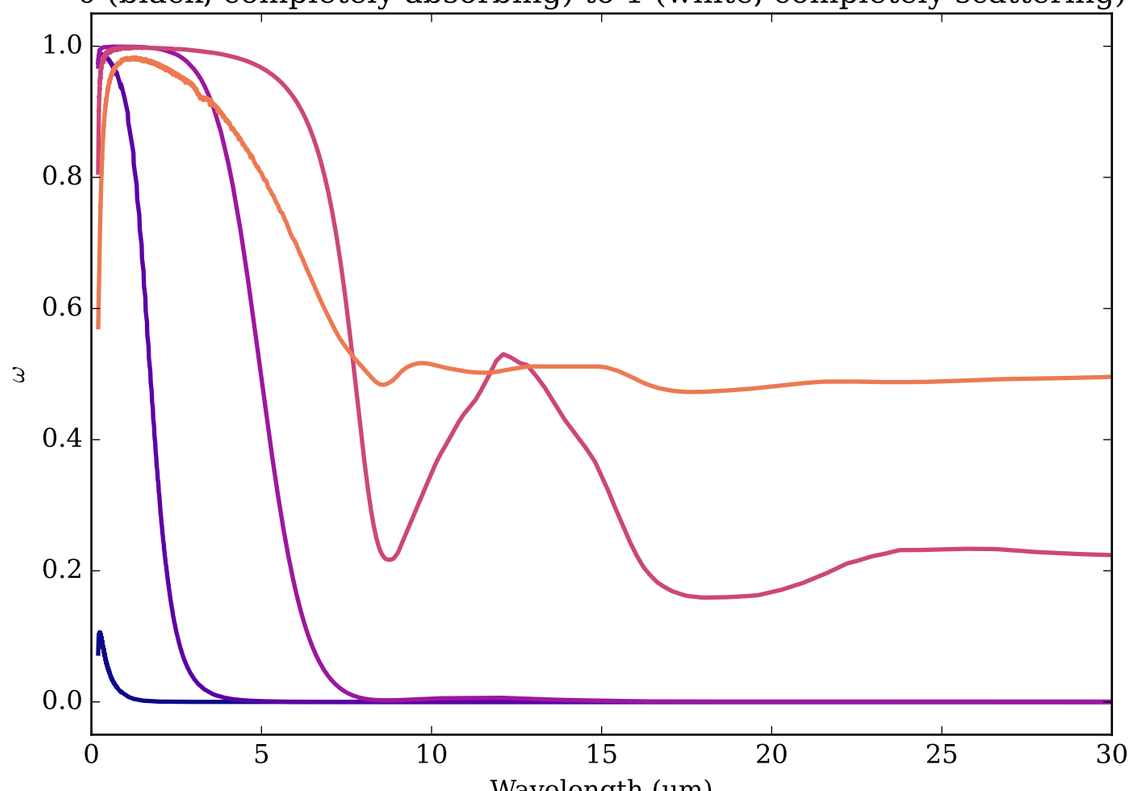


MgSiO3_sol_gel Effective Extinction Cross Section

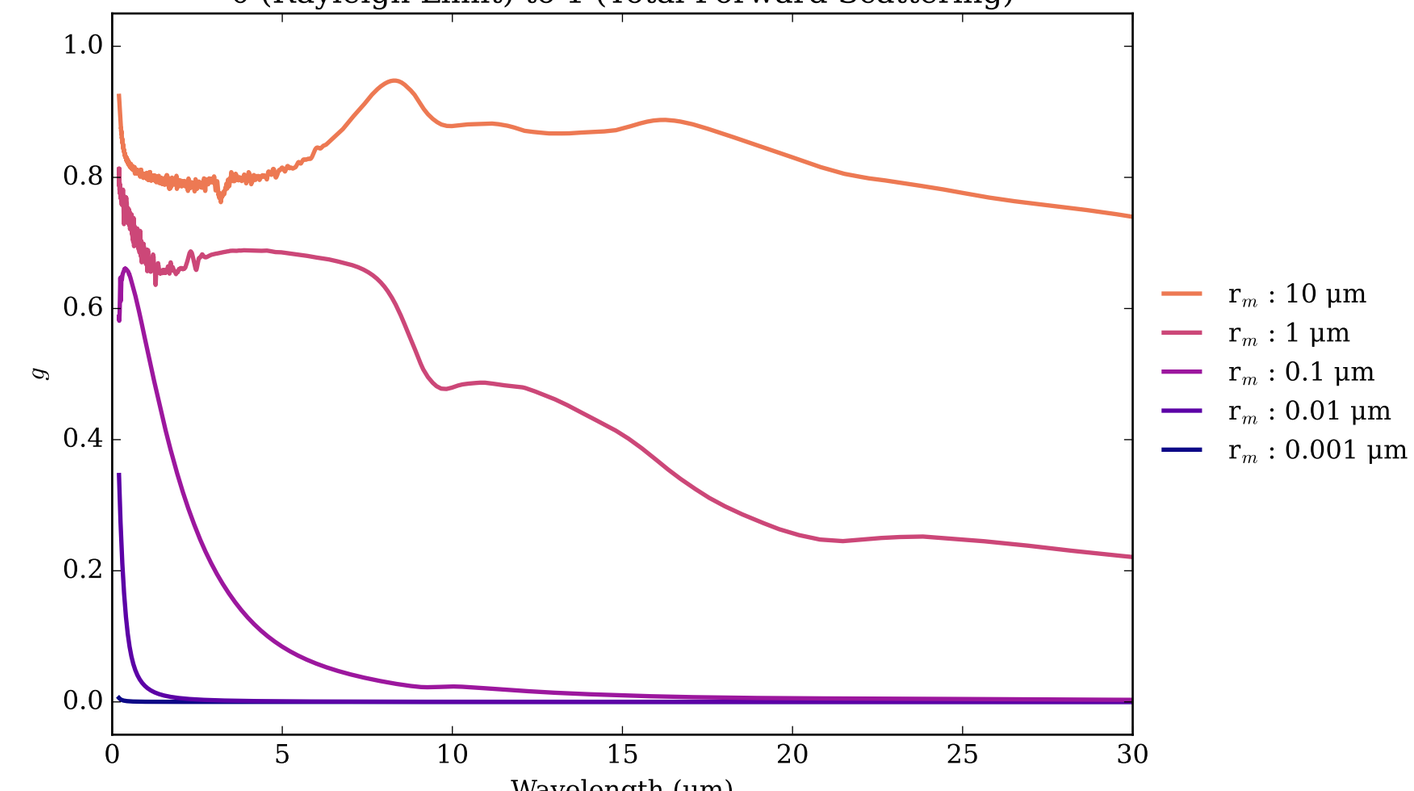
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



MgSiO3_sol_gel Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



MgSiO3_sol_gel Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



Refractive Indices for MnS
(0.2, 12.99) μm

Real Indices

Imaginary Indices

MnS Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

MnS Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

MnS Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

Refractive Indices for MnS
(0.2, 30.0) μm

Real Indices

Imaginary Indices

MnS_KH Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

MnS_KH Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

MnS_KH Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

Refractive Indices for MnS
(0.2, 30.0) μm

Real Indices

Imaginary Indices

MnS_Mor Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

MnS_Mor Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

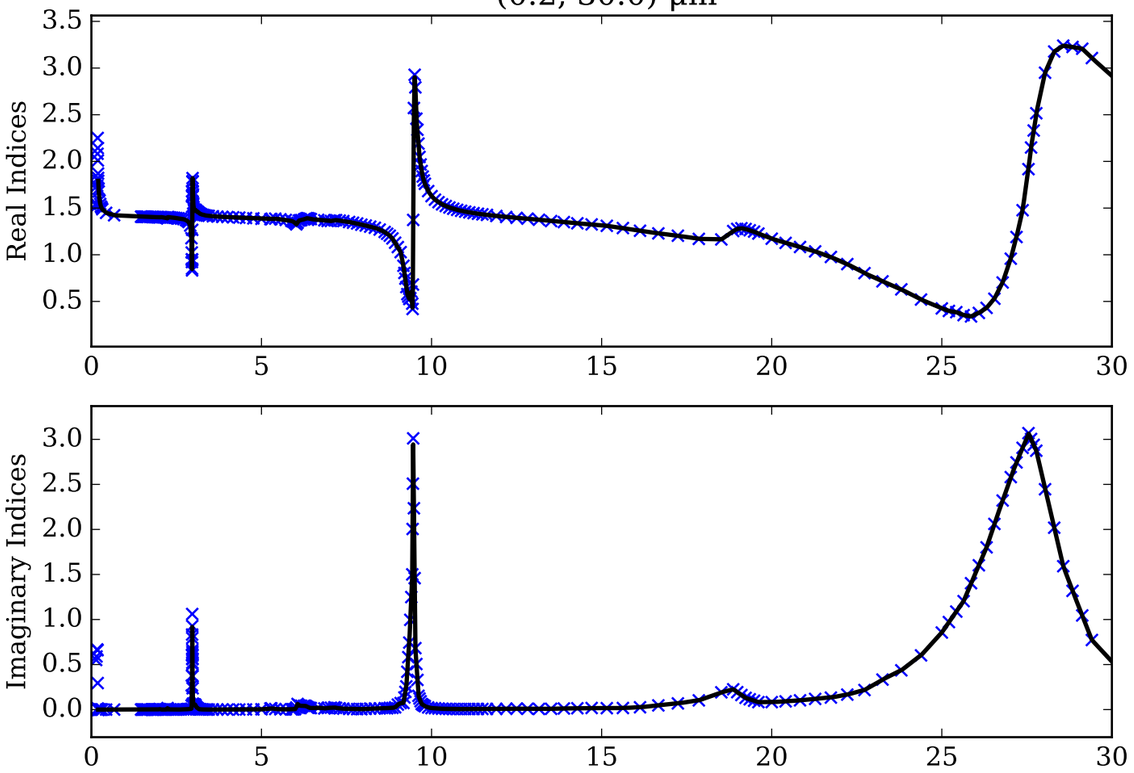
Wavelength (μm)

MnS_Mor Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

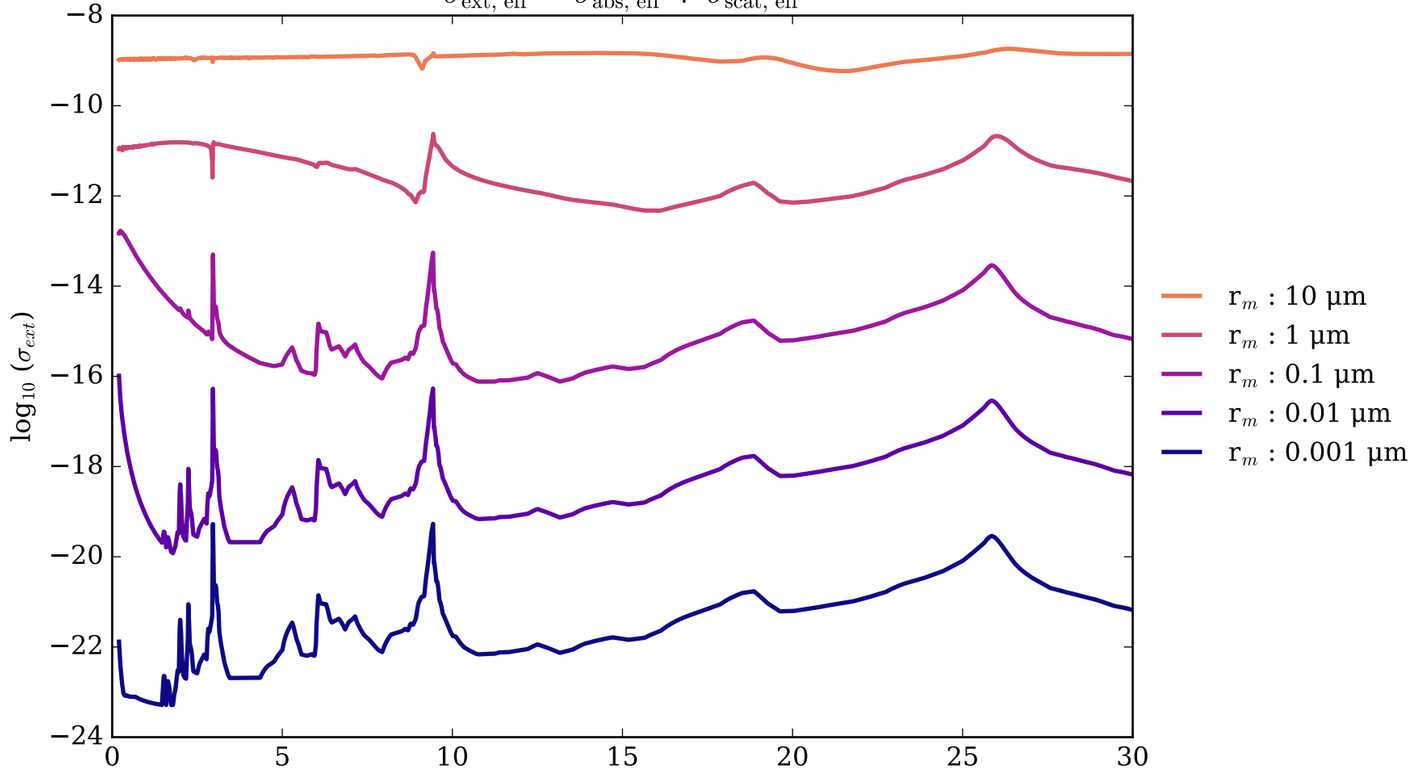
Wavelength (μm)

Refractive Indices for NH3
(0.2, 30.0) μm

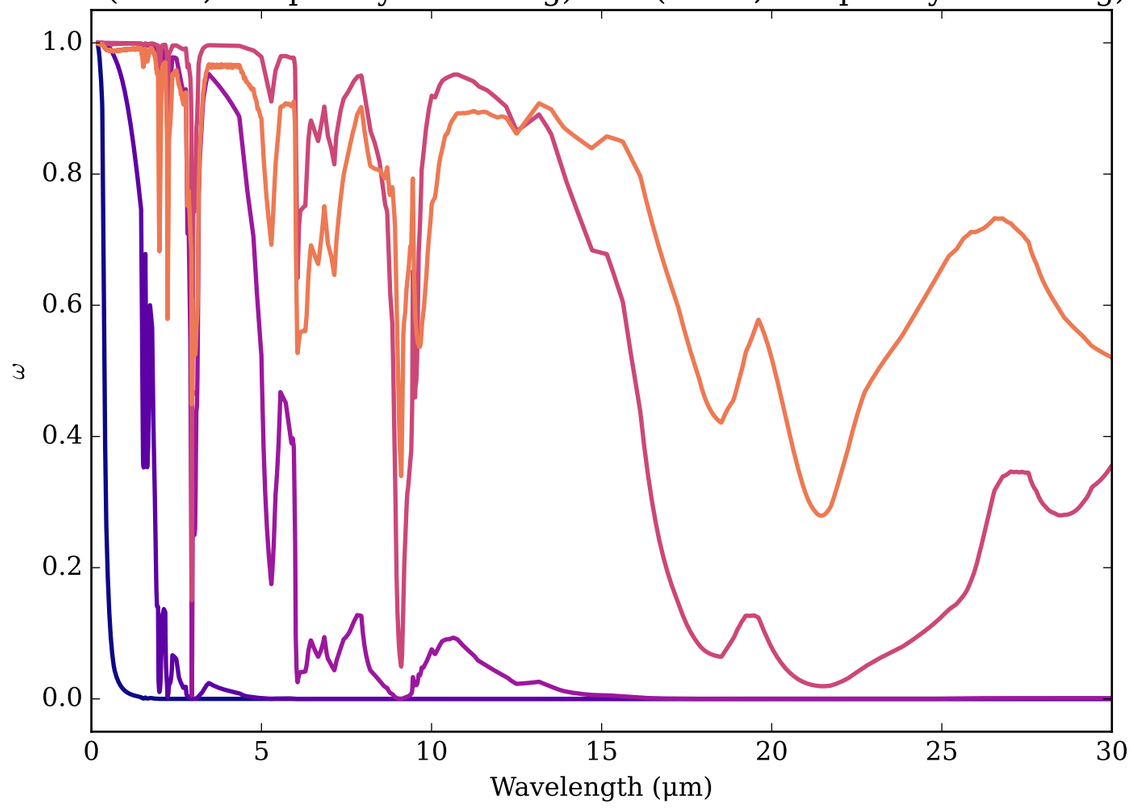


NH3 Effective Extinction Cross Section

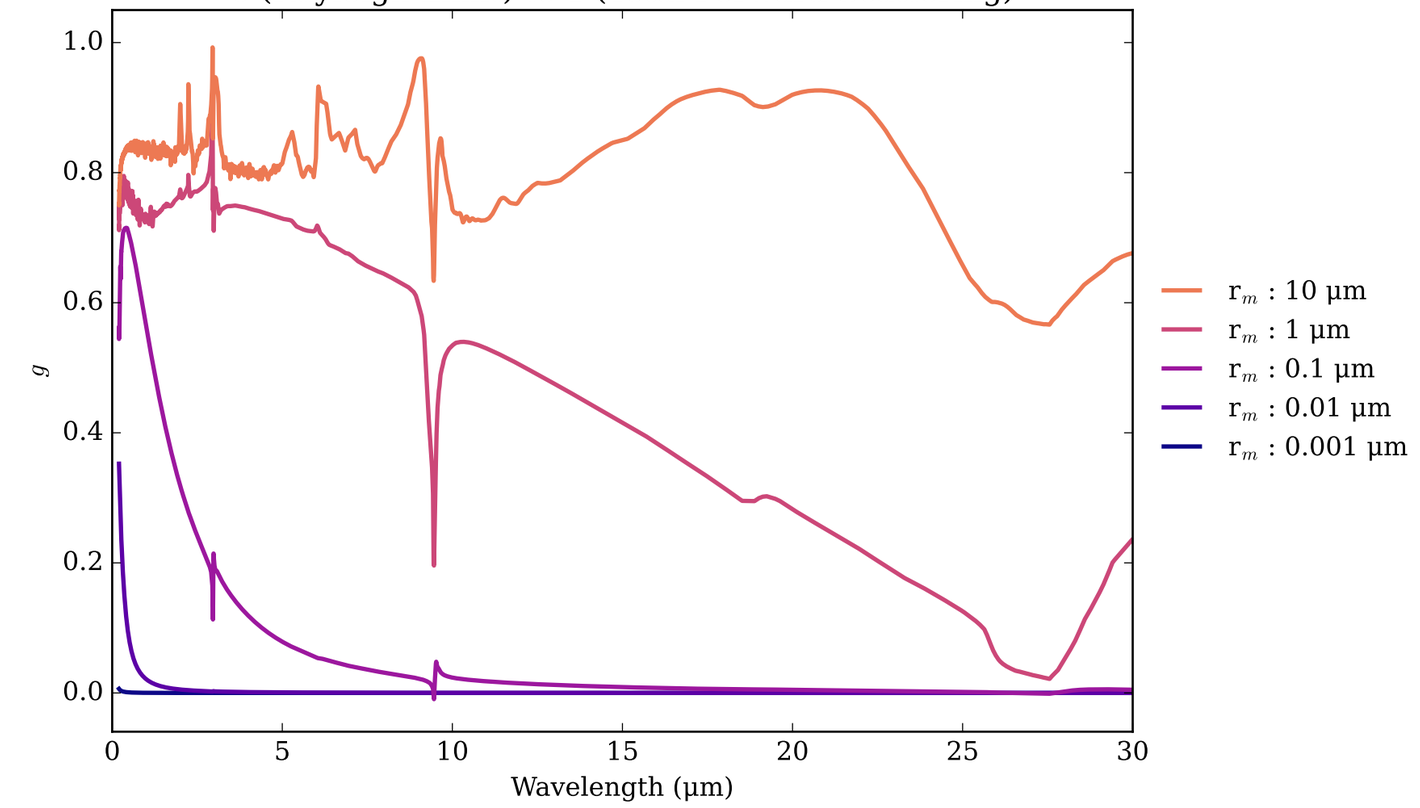
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



NH3 Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



NH3 Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



Refractive Indices for NH4SH
(0.5, 30.0) μm

Real Indices

Imaginary Indices

NH4SH Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

NH4SH Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

NH4SH Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

Refractive Indices for Na2S
(0.2, 30.0) μm

Real Indices

Imaginary Indices

Na2S Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

Na2S Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

Na2S Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

Refractive Indices for NaCl
(0.2, 30.0) μm

Real Indices

Imaginary Indices

NaCl Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

NaCl Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

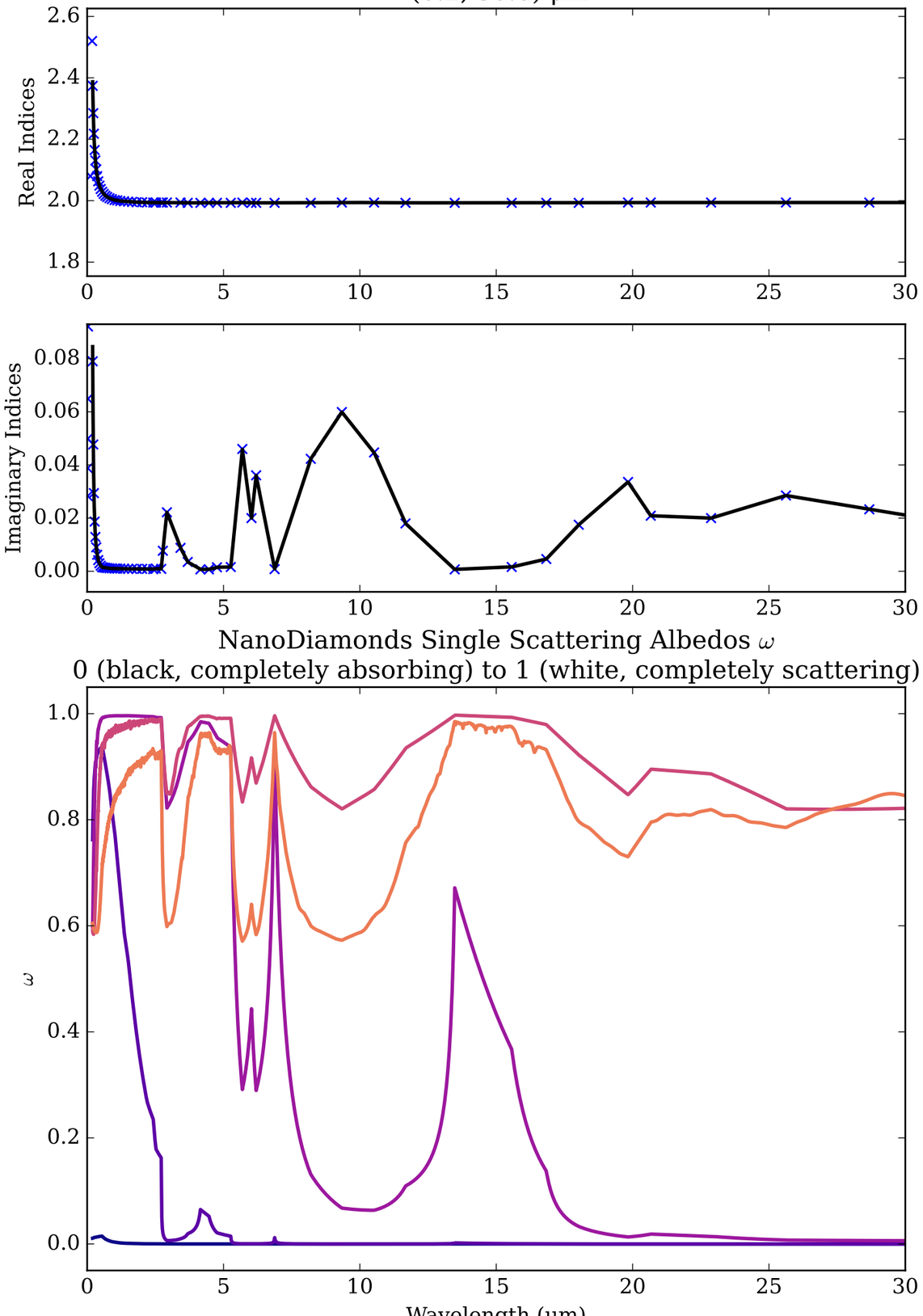
NaCl Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

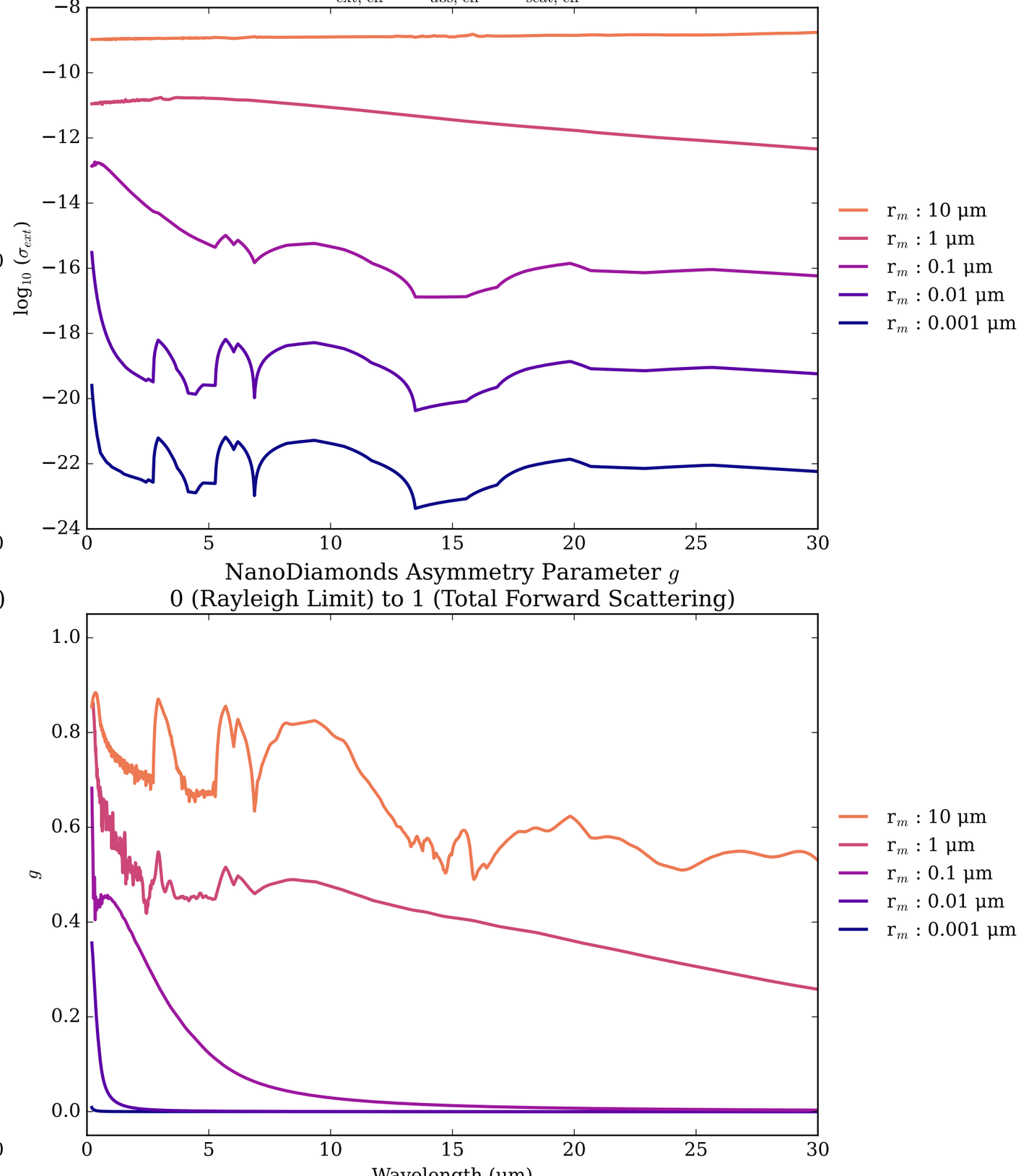
r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

Refractive Indices for NanoDiamonds
(0.2, 30.0) μm



NanoDiamonds Effective Extinction Cross Section

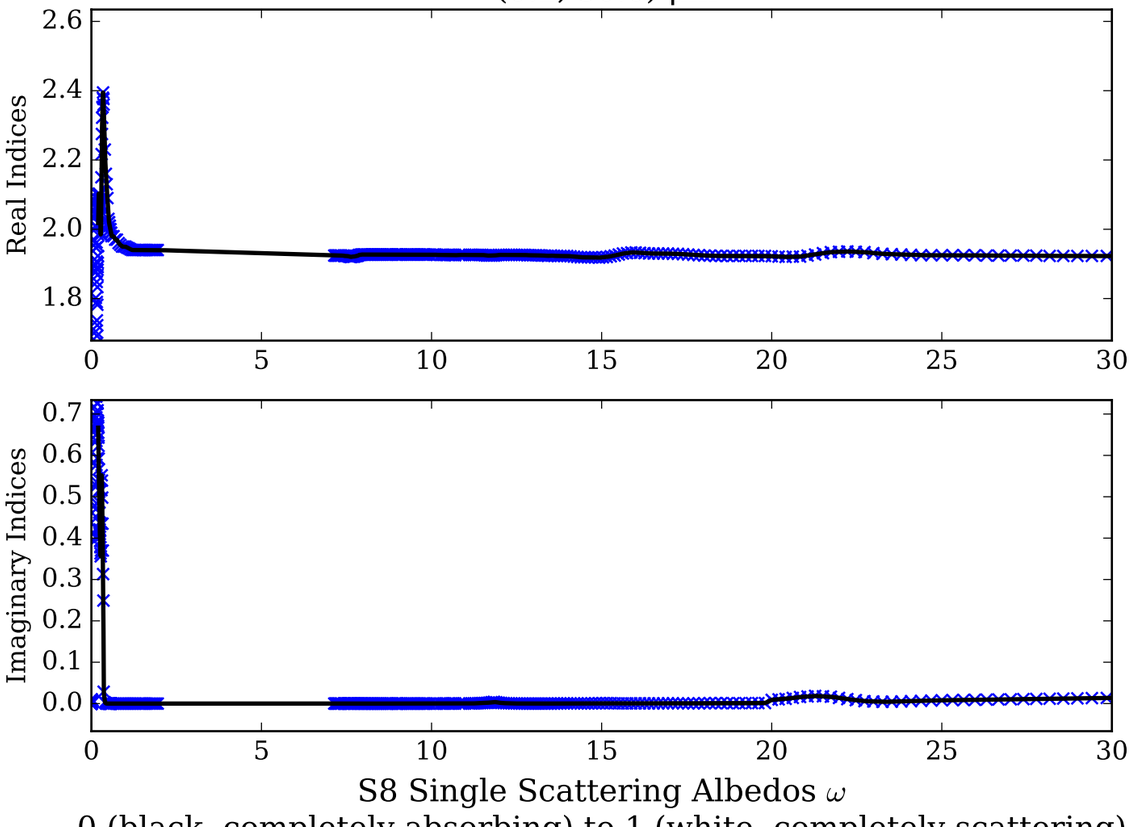
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



NanoDiamonds Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

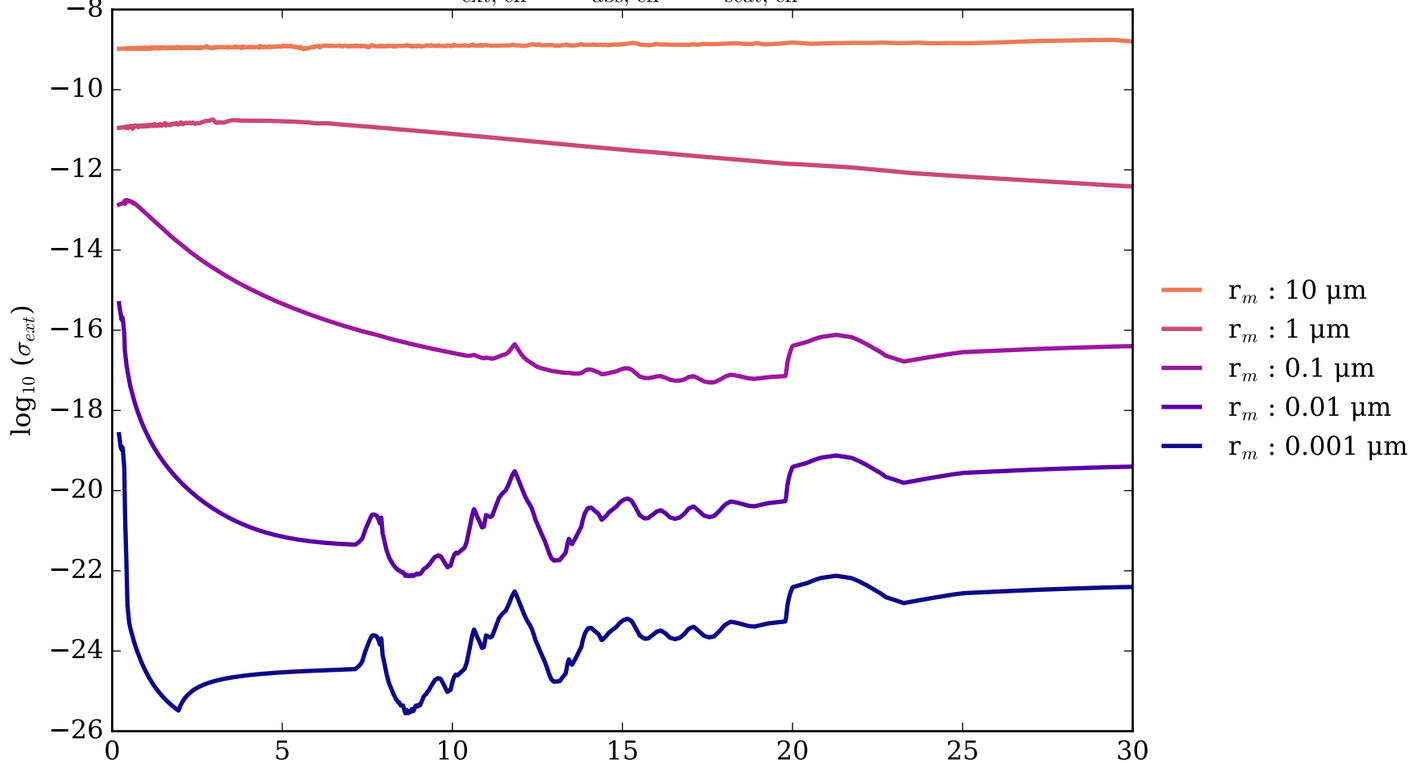
NanoDiamonds Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

Refractive Indices for S8
(0.2, 30.0) μm

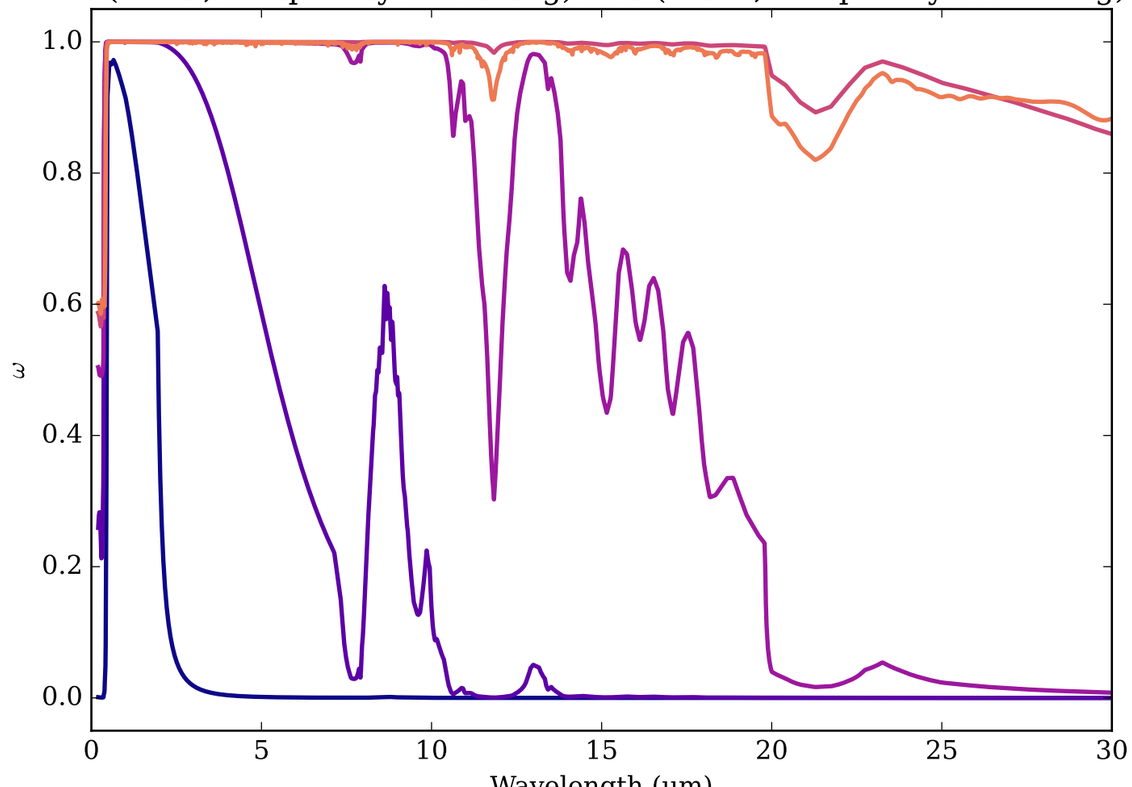


S8 Effective Extinction Cross Section

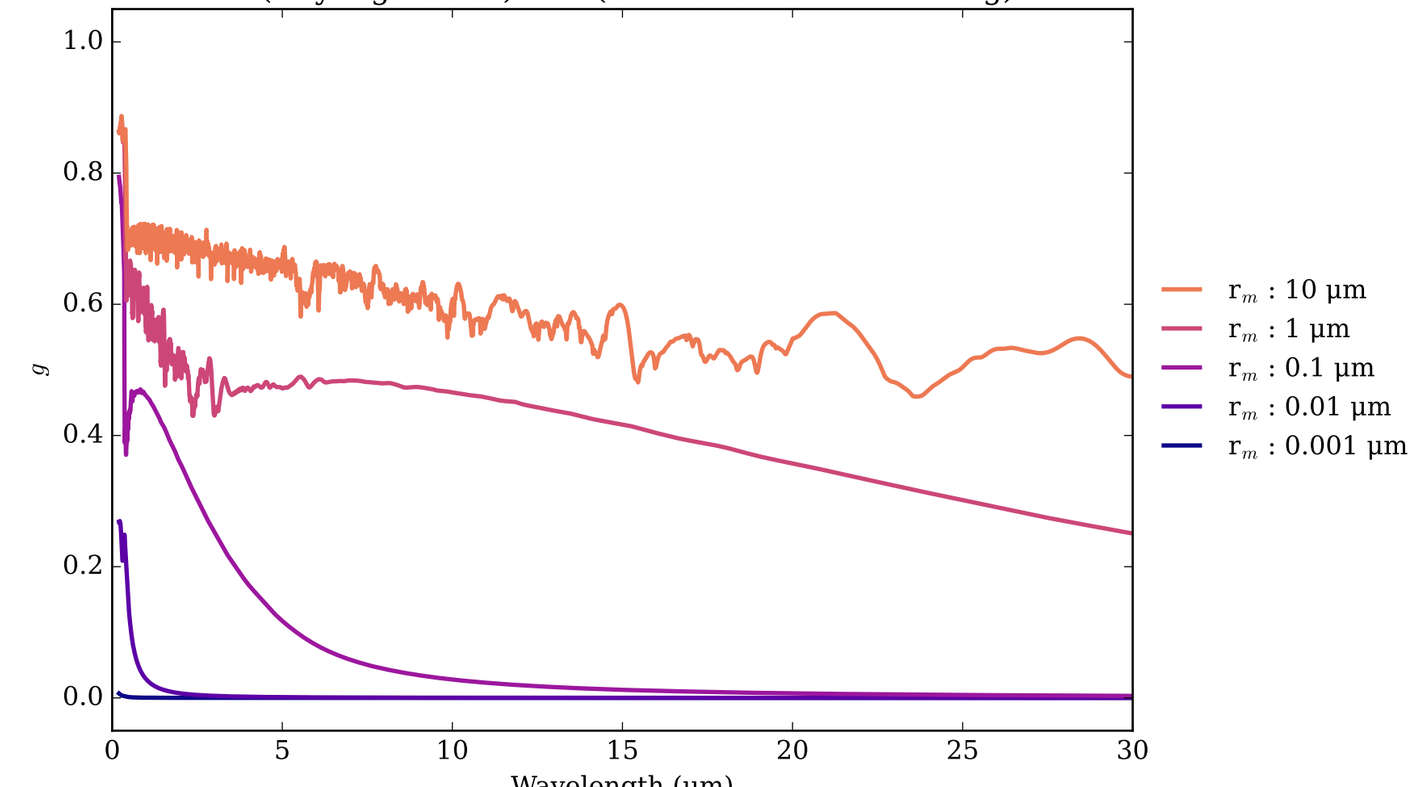
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



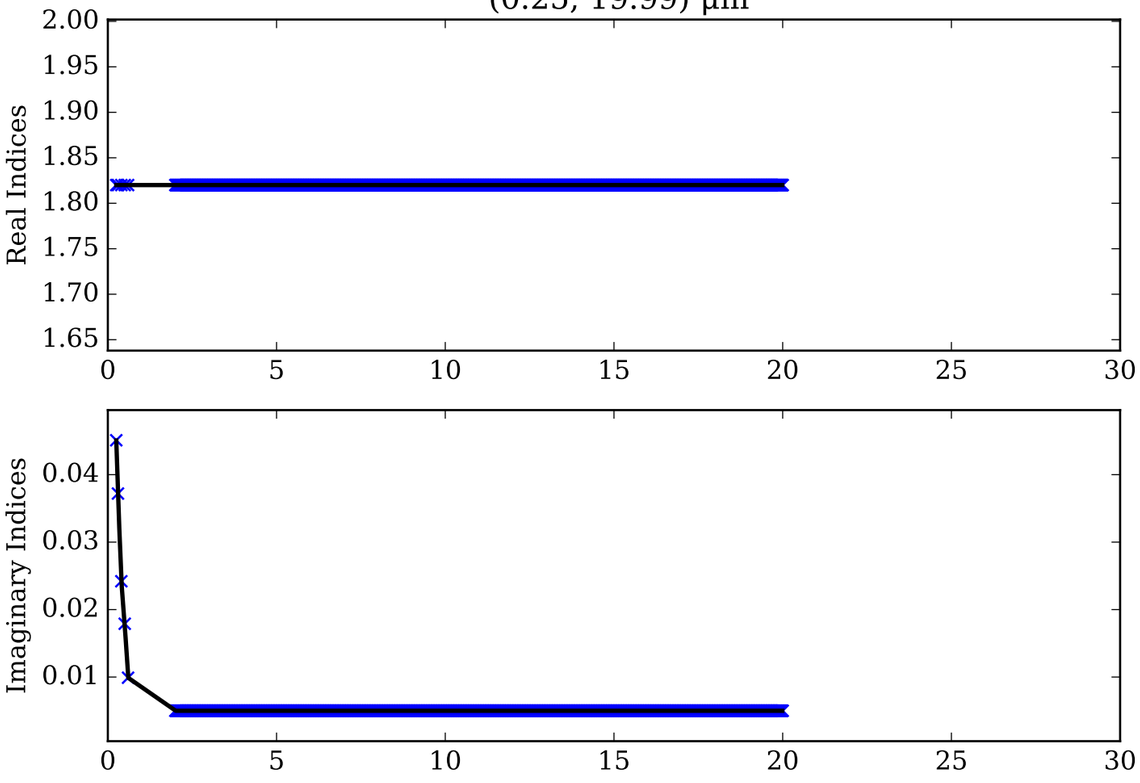
S8 Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



S8 Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

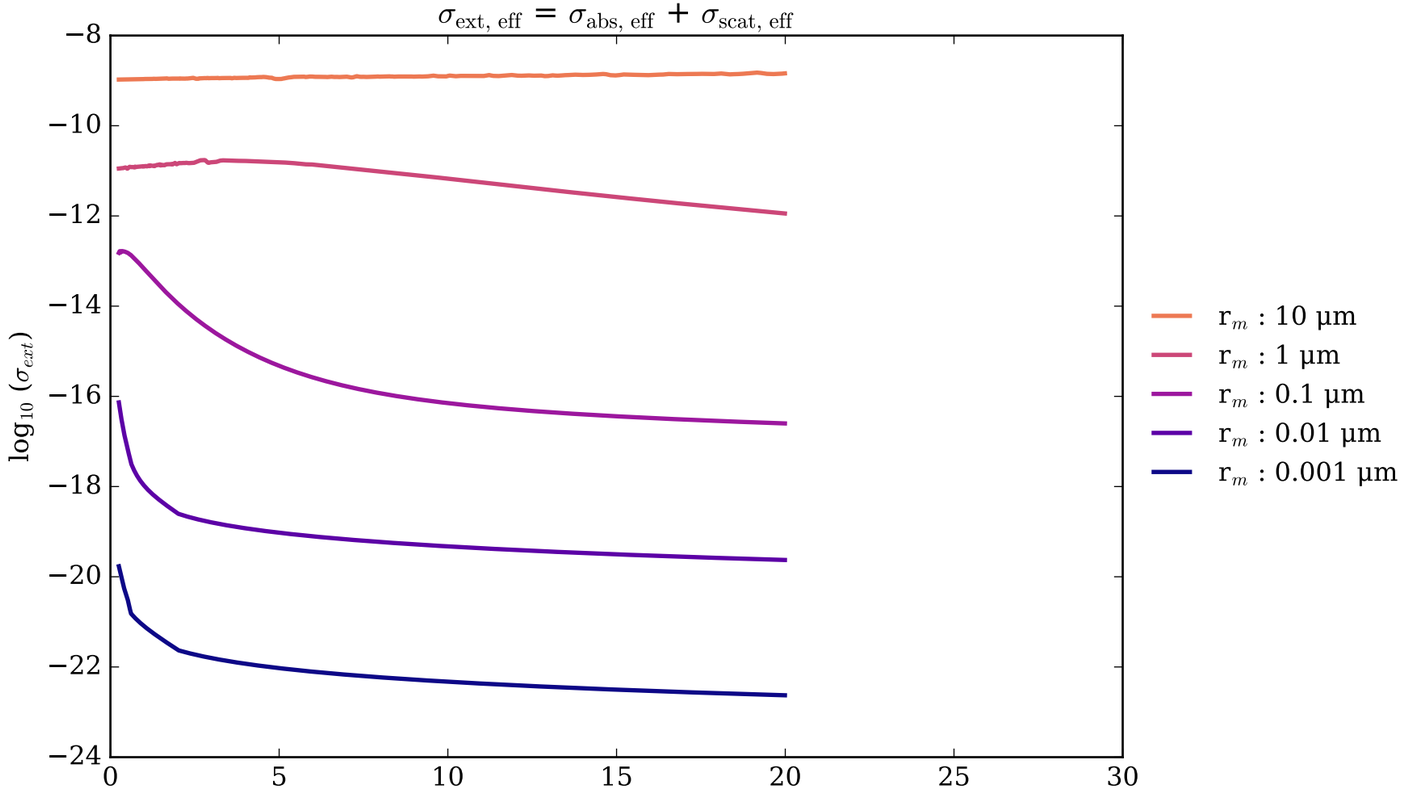


Refractive Indices for Saturn-Phosphorus-Haze
(0.25, 19.99) μm

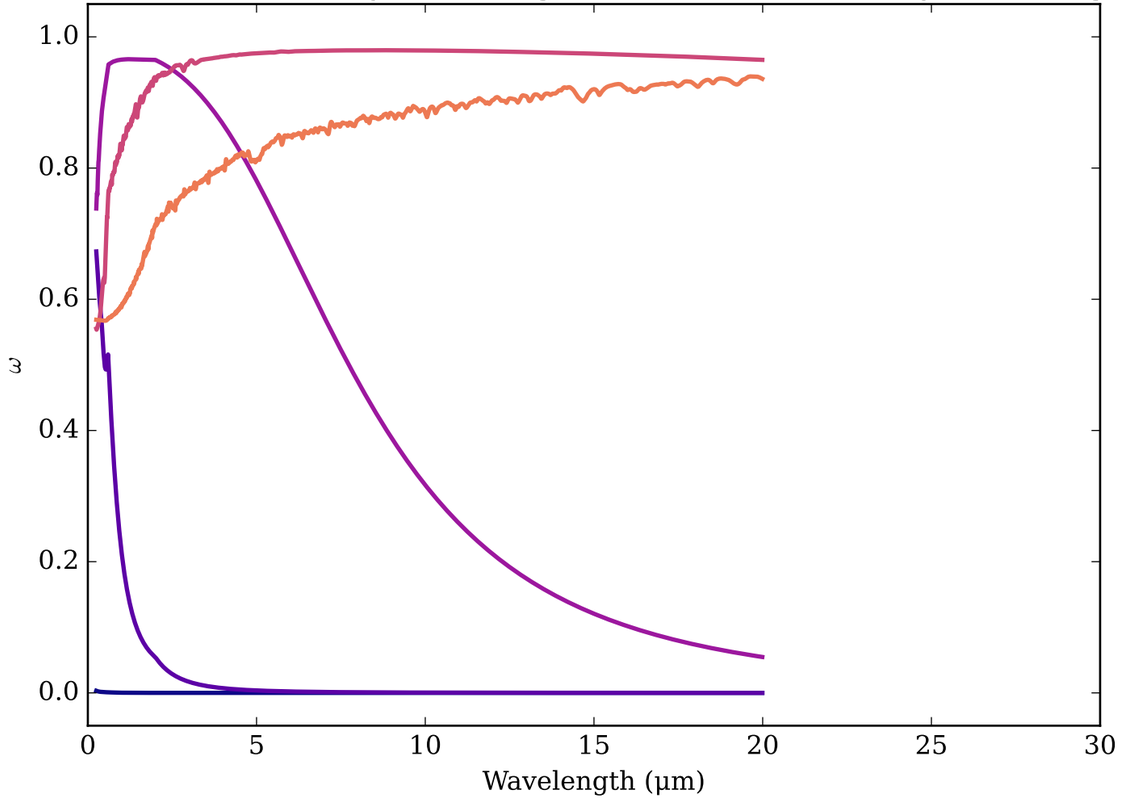


Saturn-Phosphorus-Haze Effective Extinction Cross Section

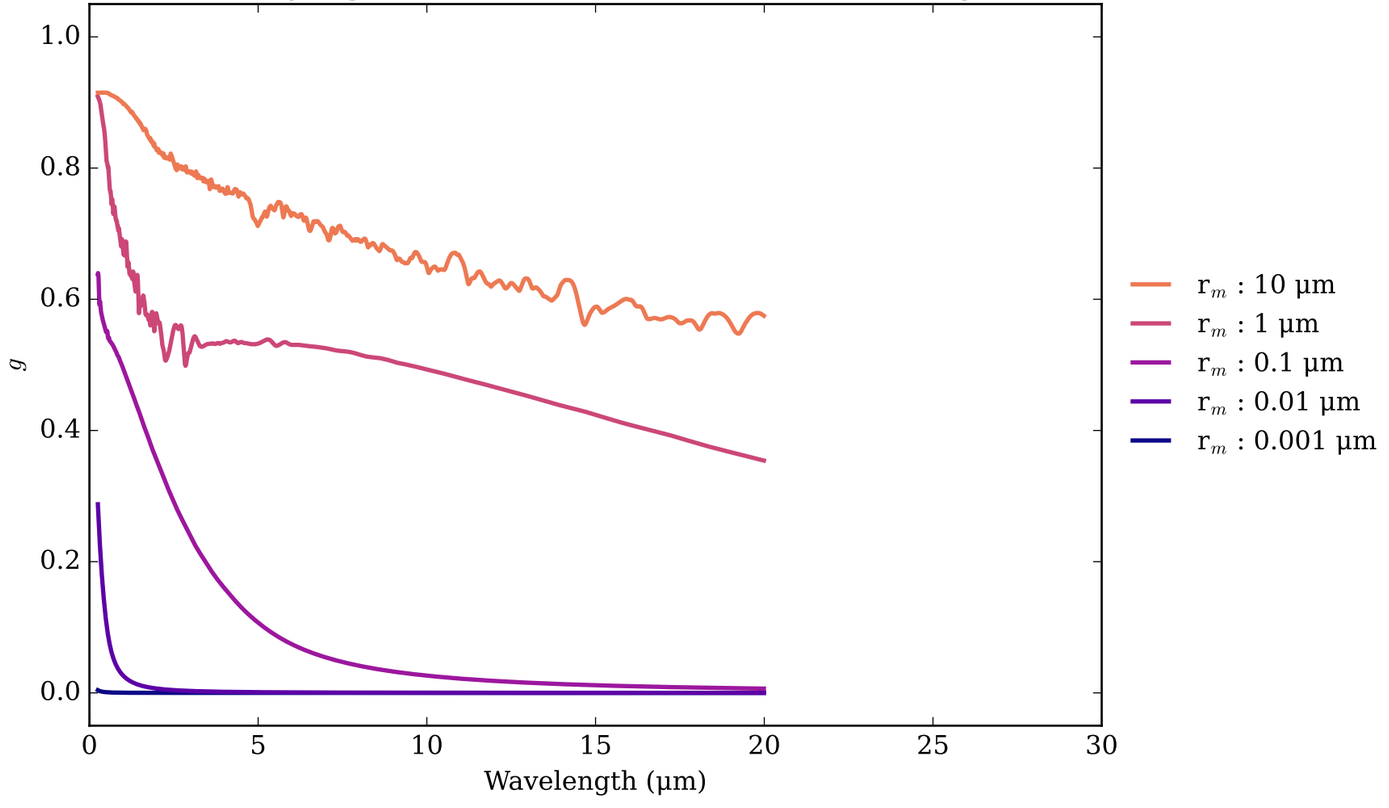
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



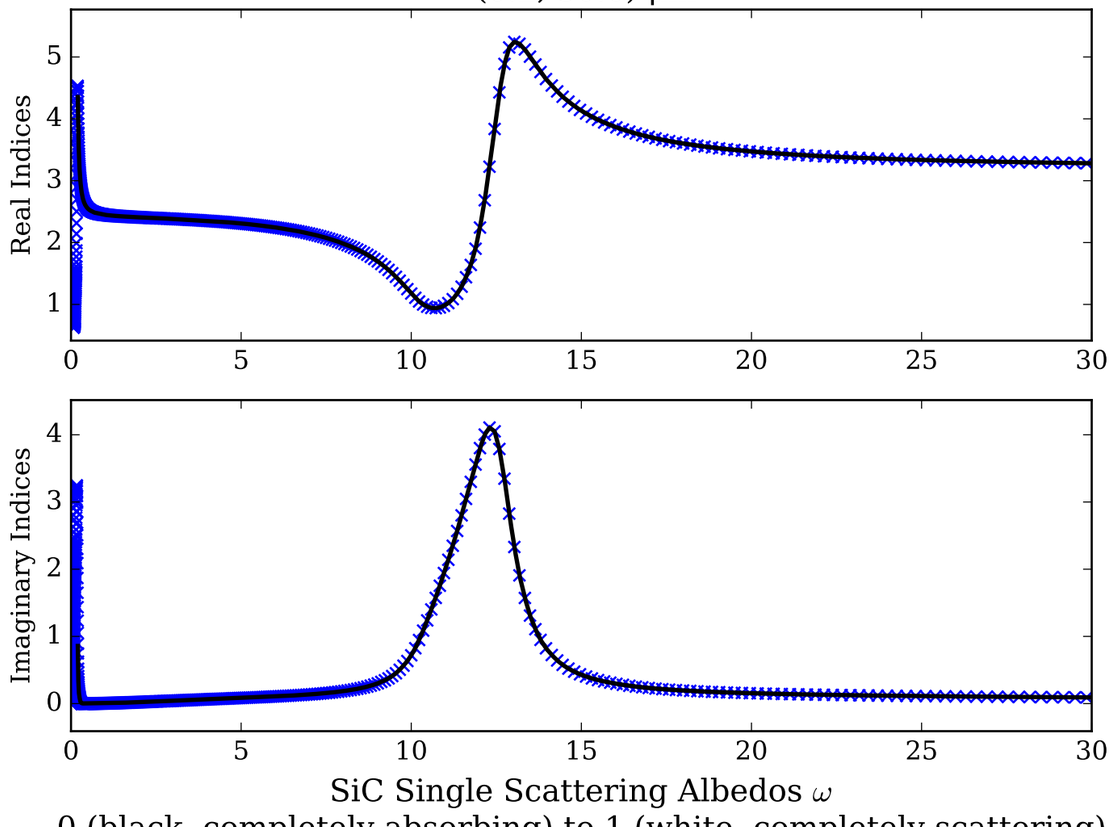
Saturn-Phosphorus-Haze Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Saturn-Phosphorus-Haze Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

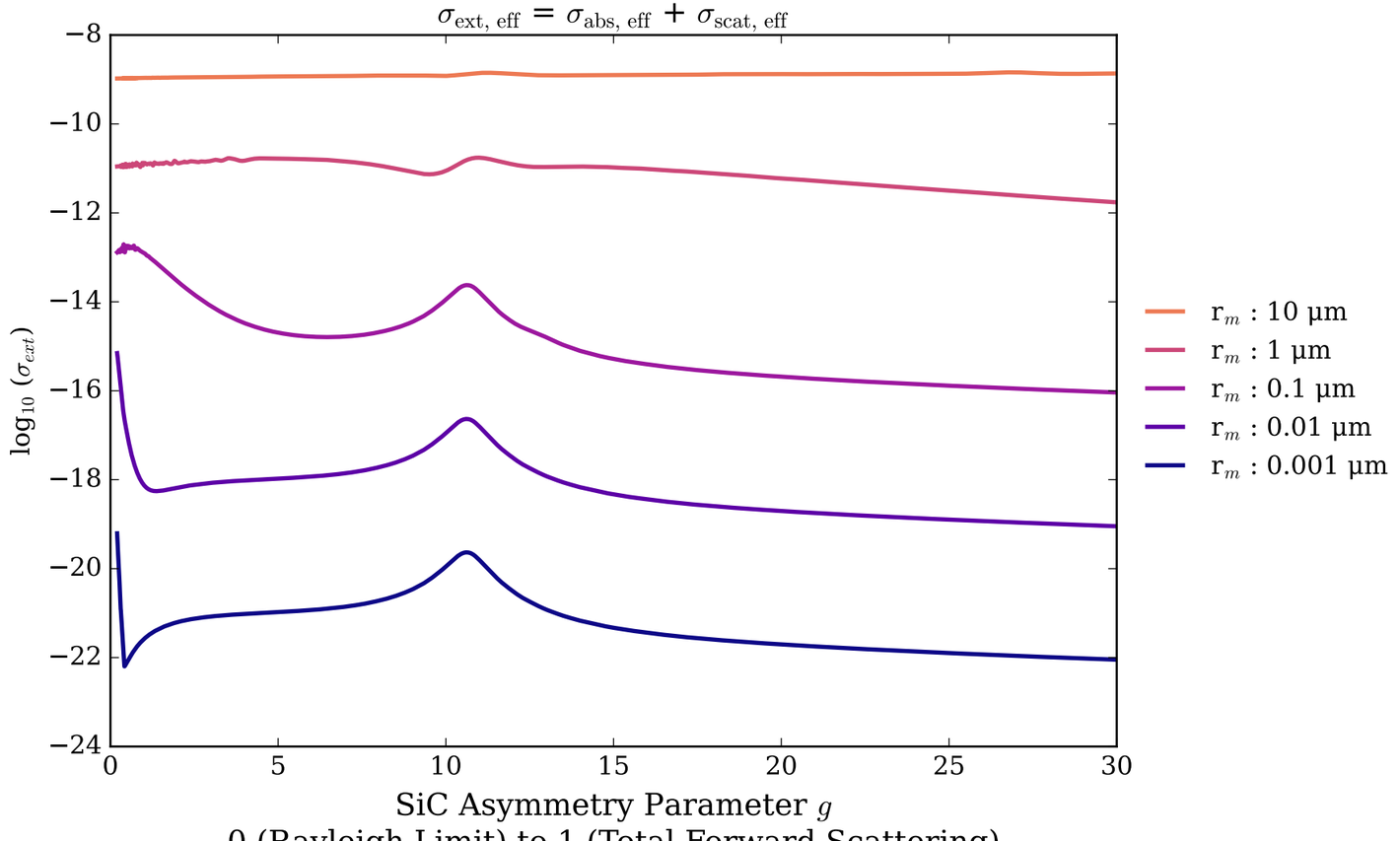


Refractive Indices for SiC
(0.2, 30.0) μm

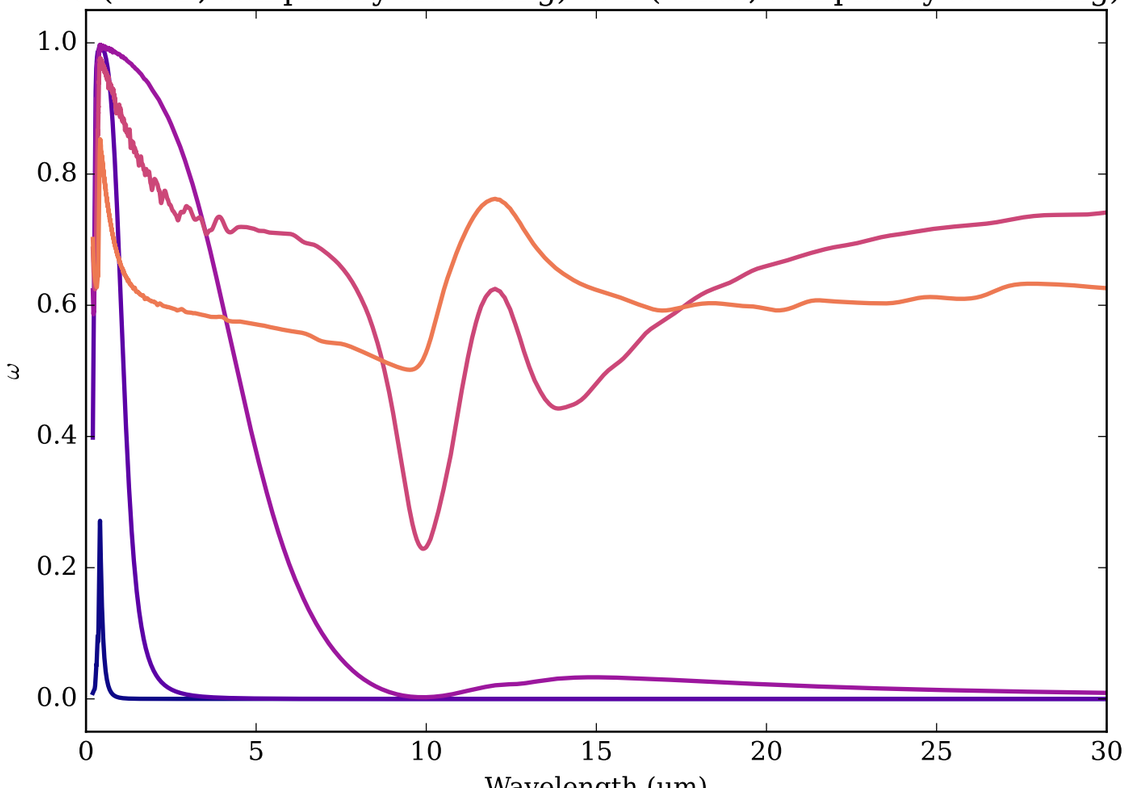


SiC Effective Extinction Cross Section

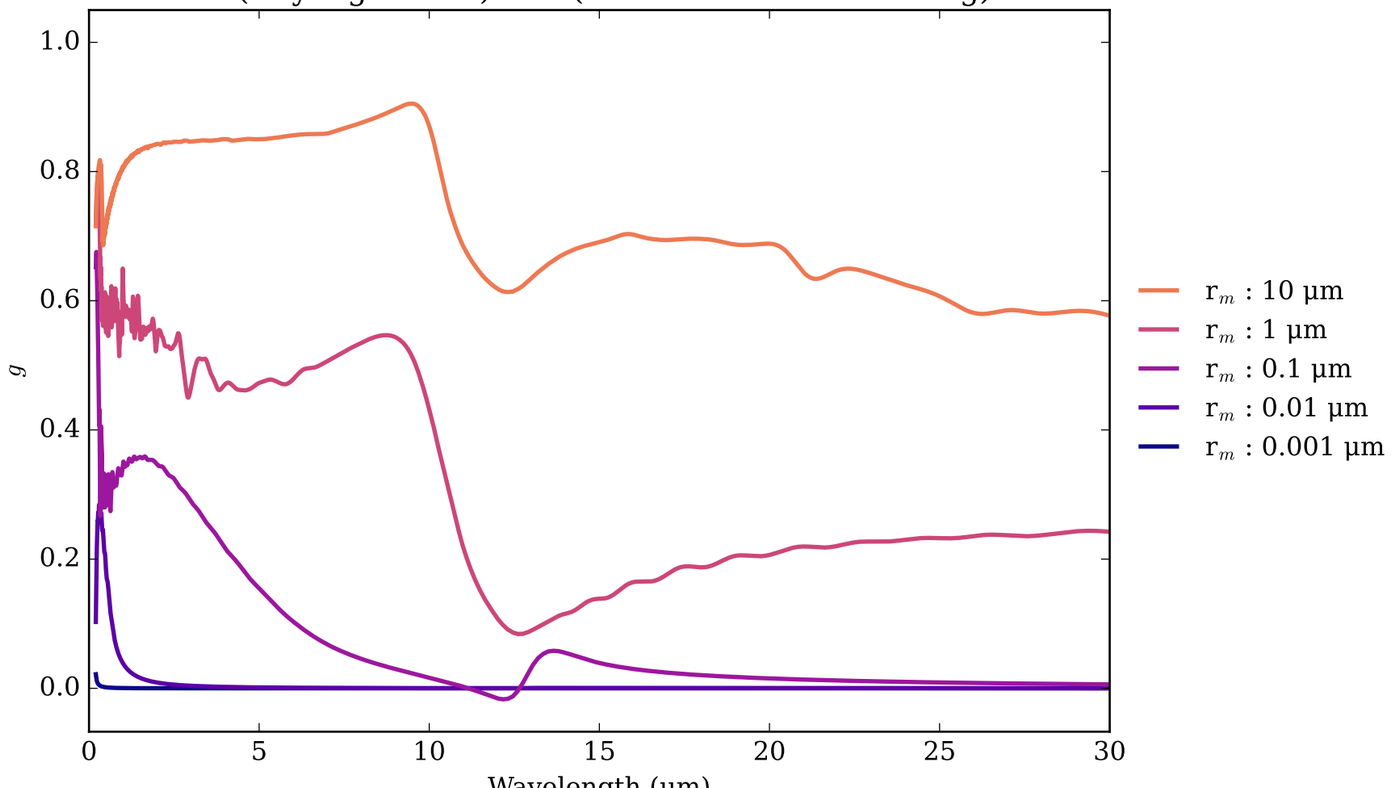
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



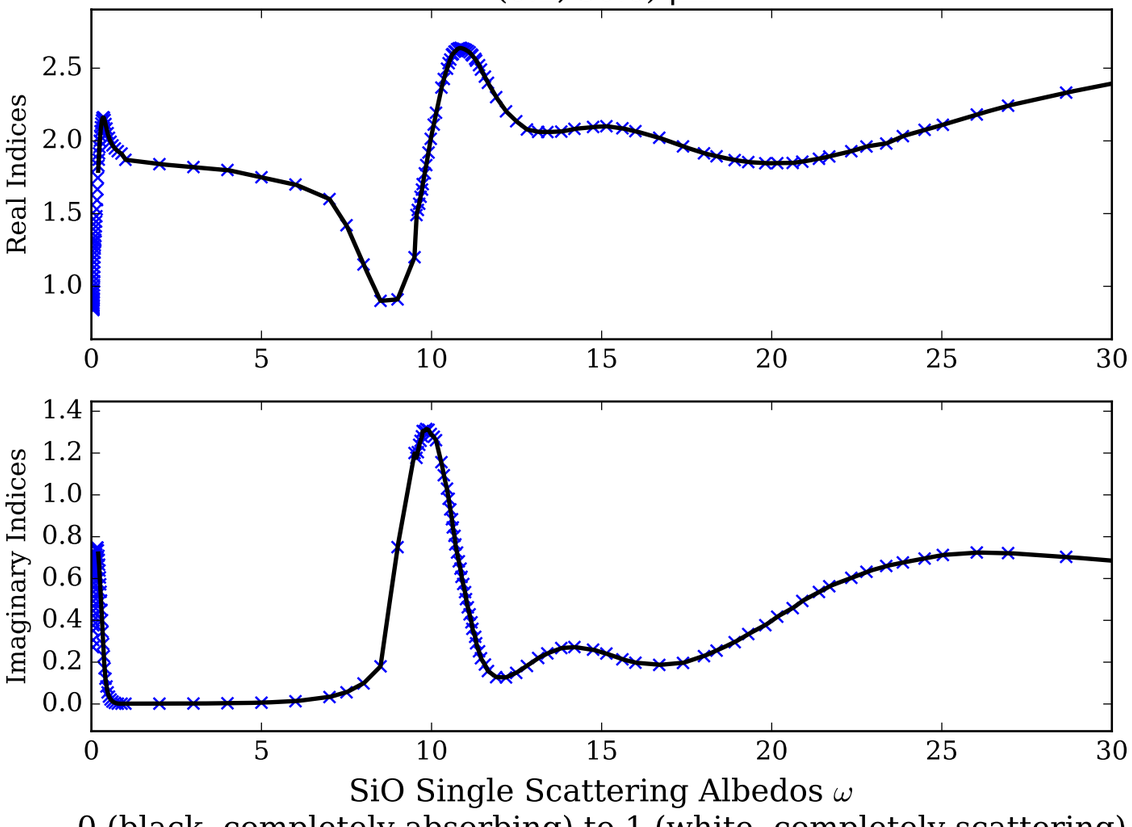
SiC Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



SiC Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

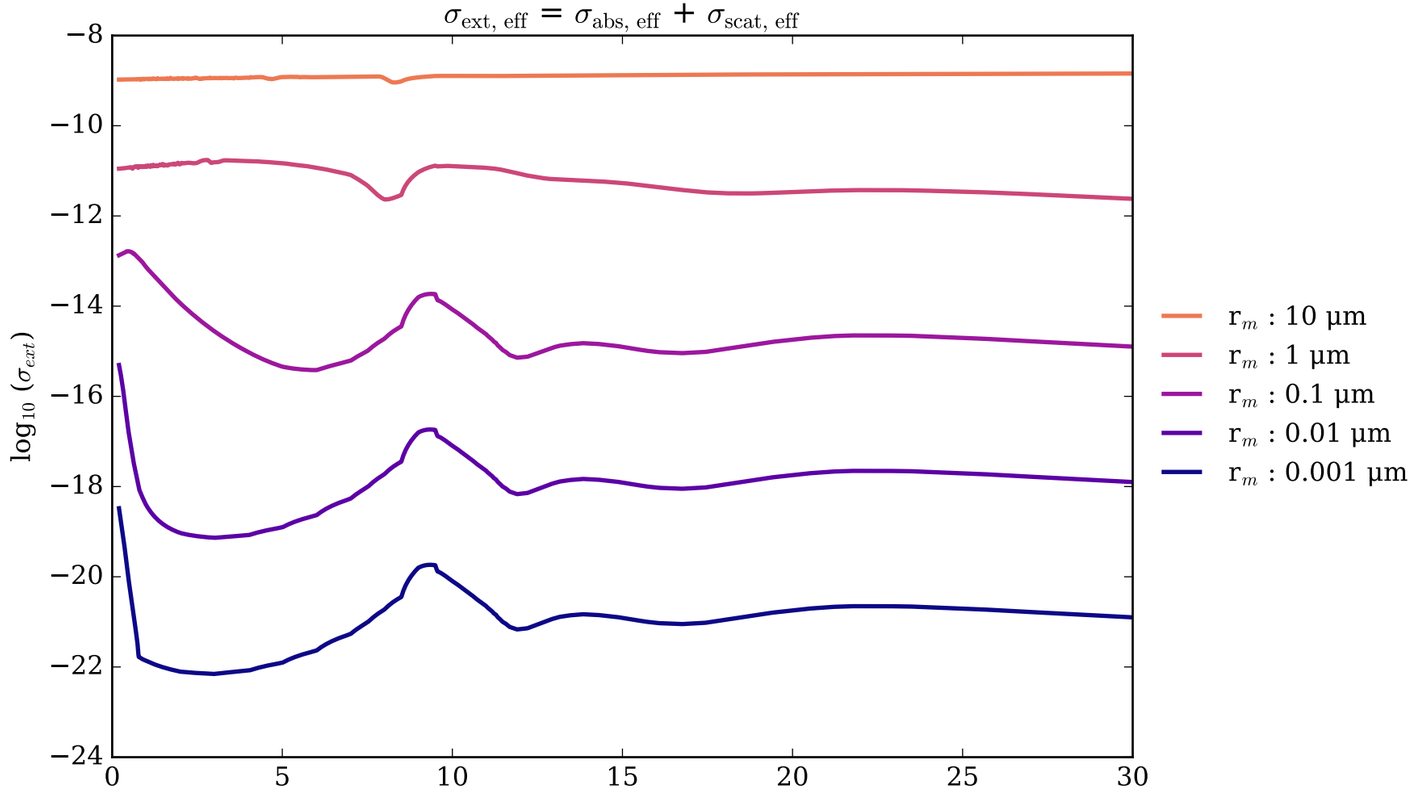


Refractive Indices for SiO
(0.2, 30.0) μm

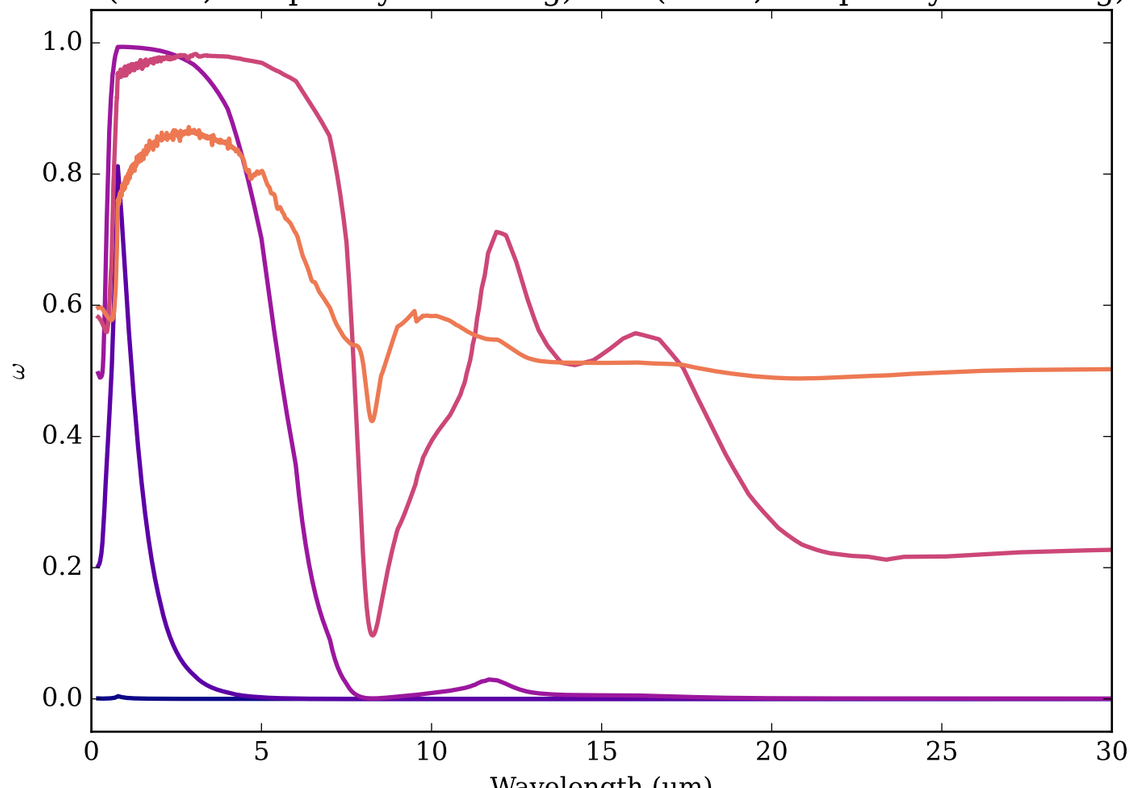


SiO Effective Extinction Cross Section

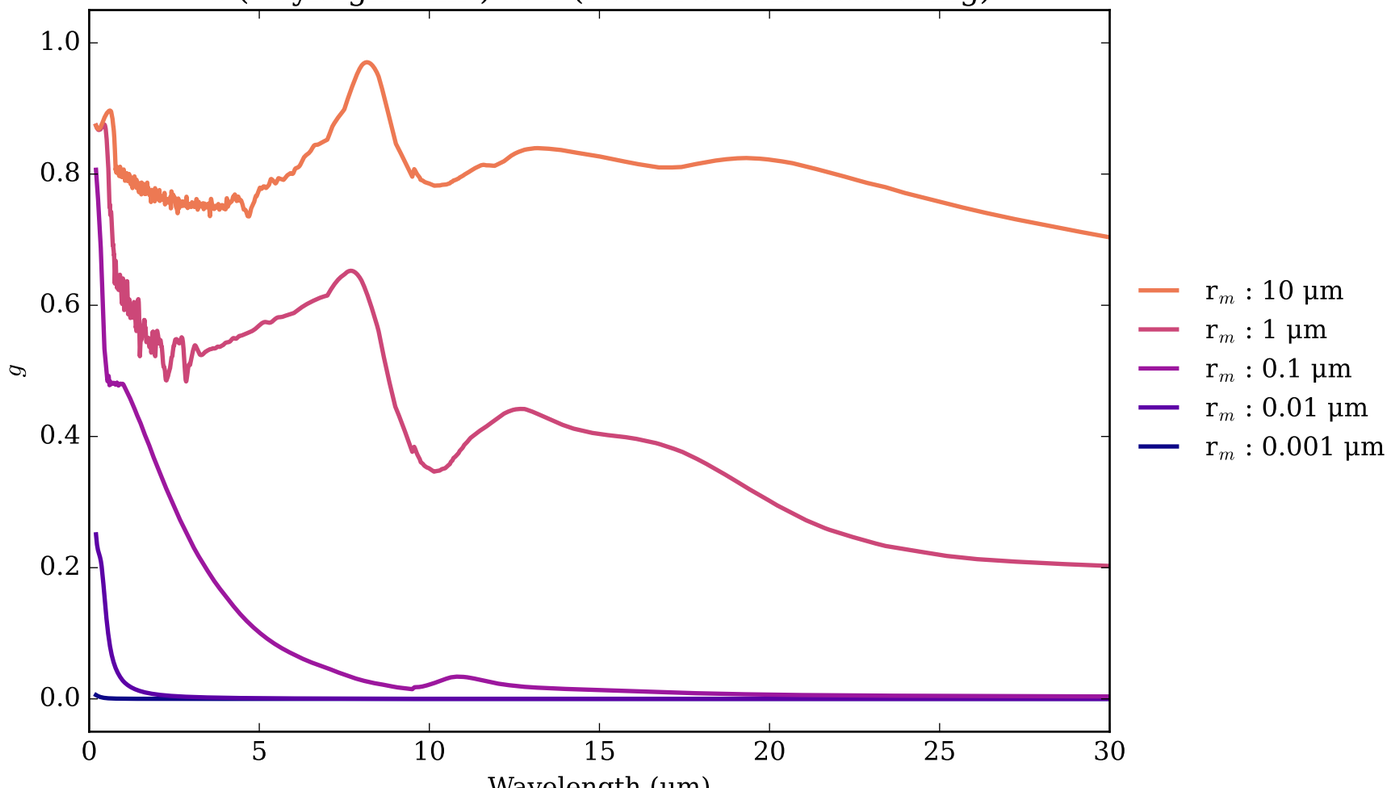
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



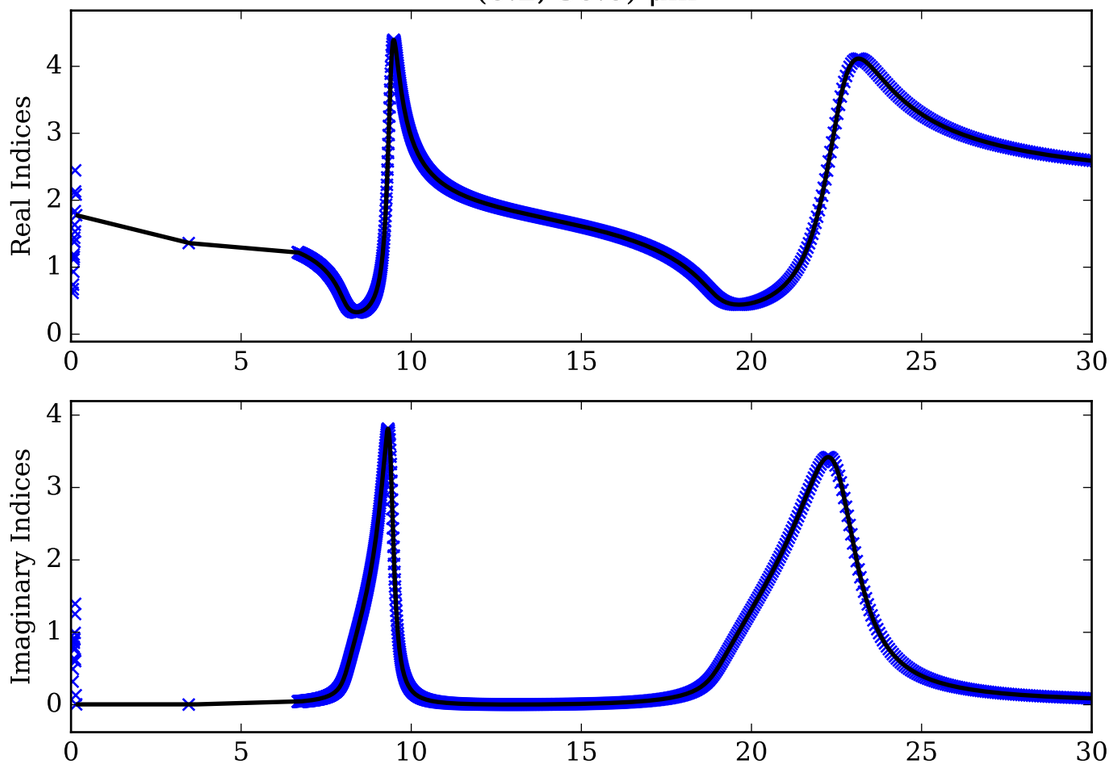
SiO Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



SiO Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

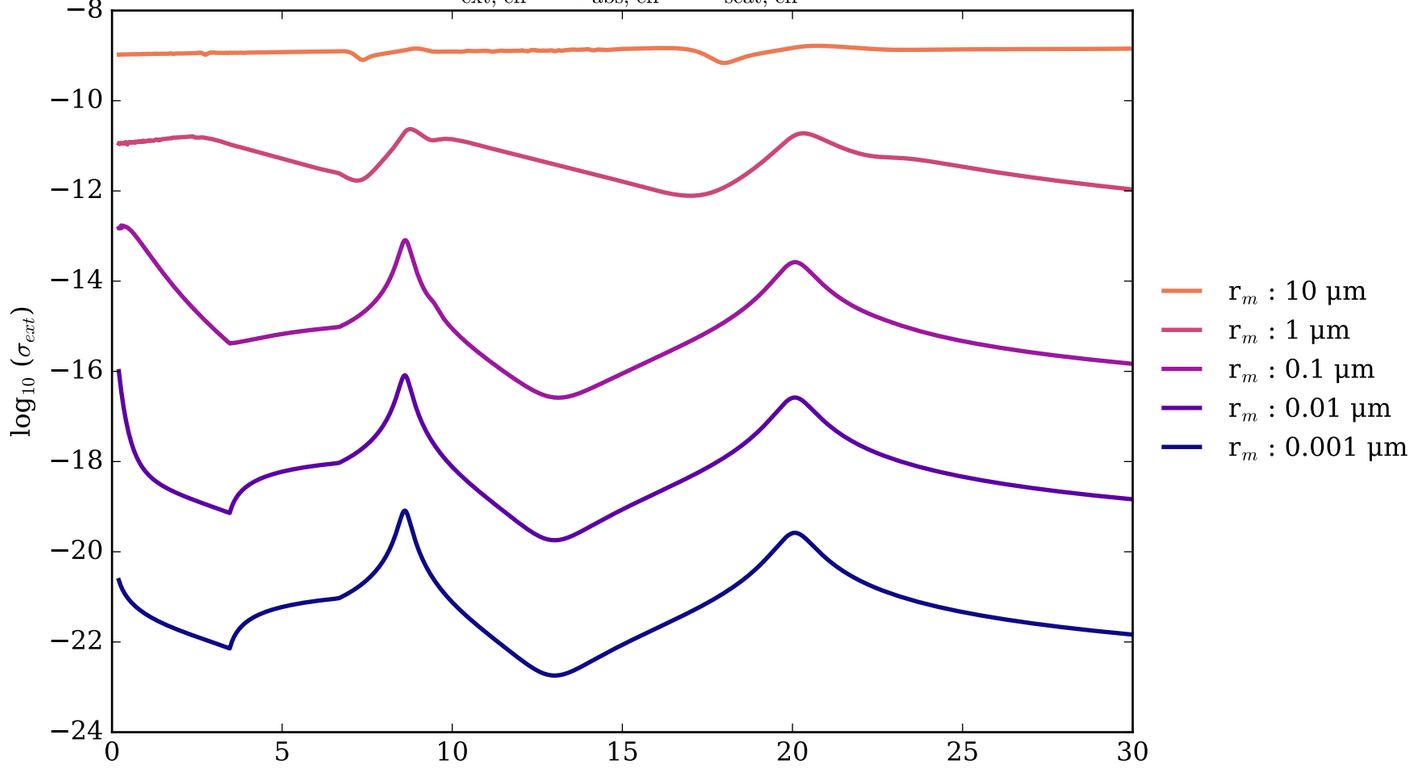


Refractive Indices for SiO2
(0.2, 30.0) μm

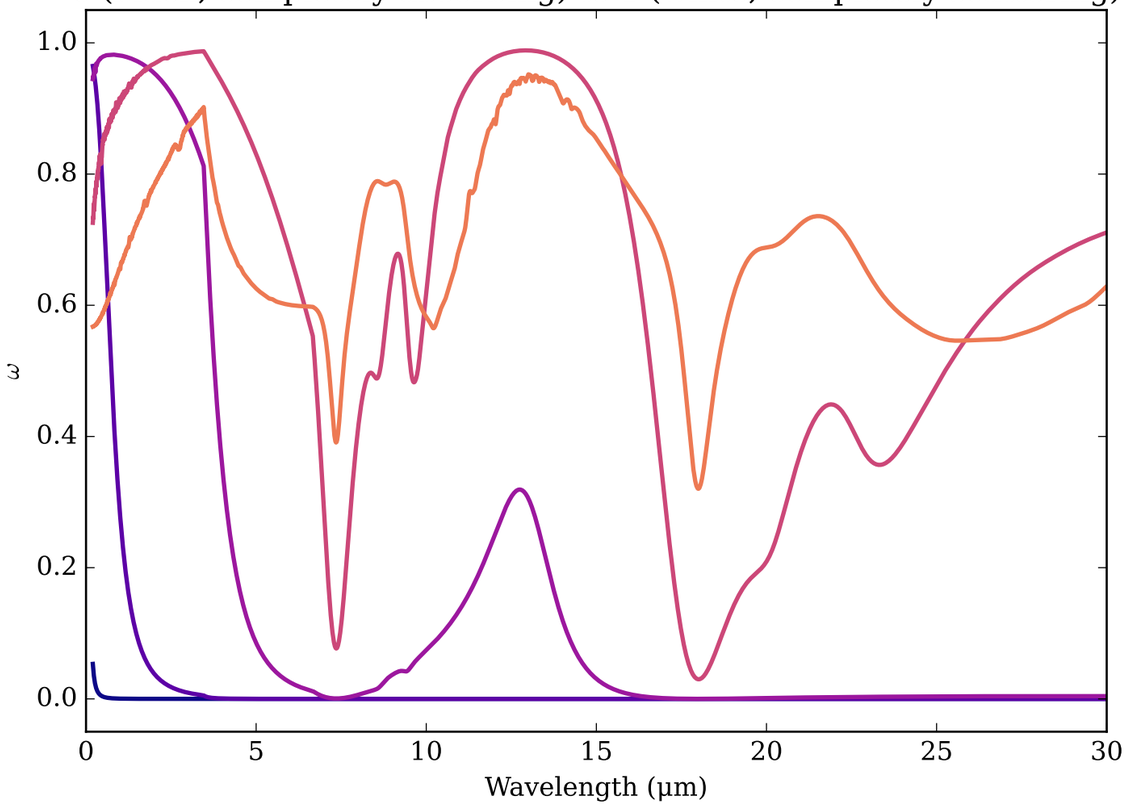


SiO2 Effective Extinction Cross Section

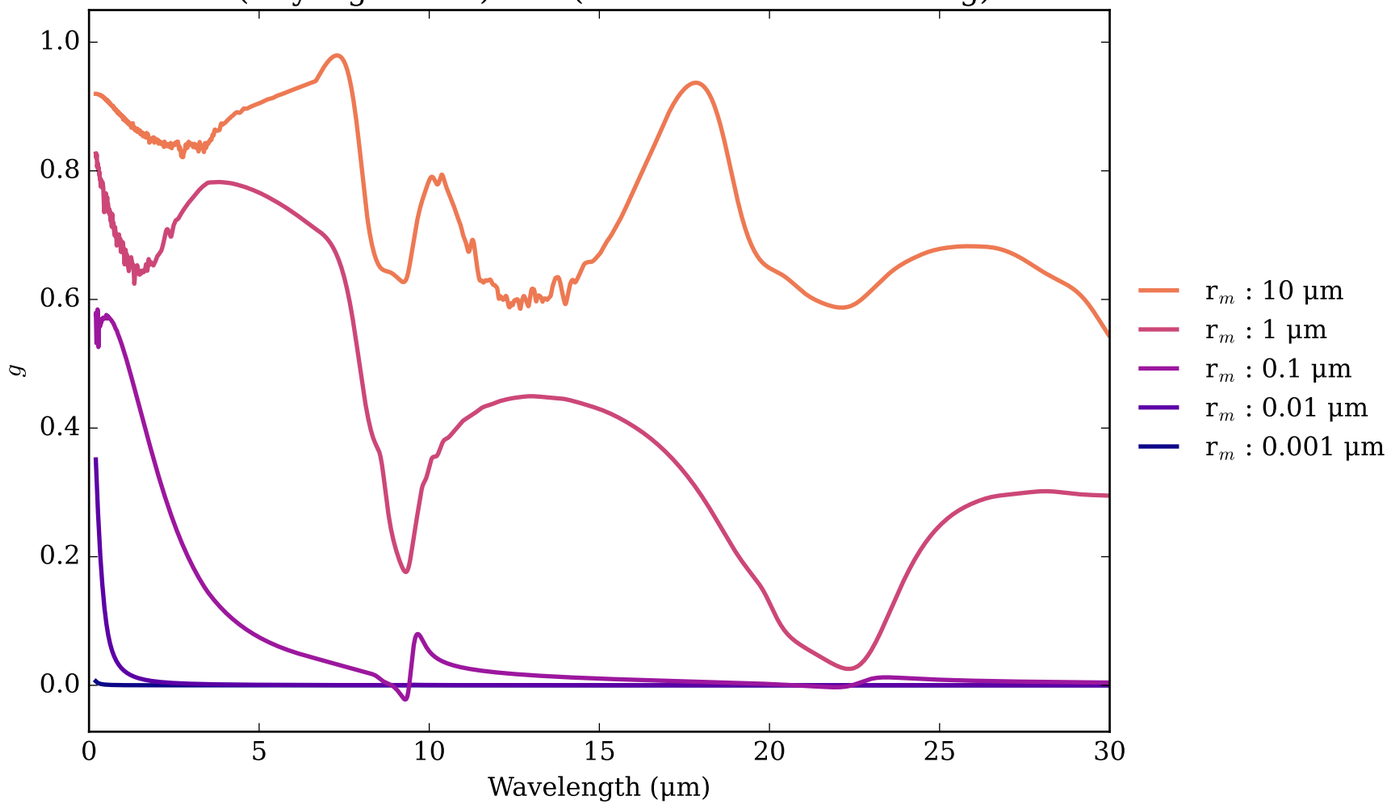
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



SiO2 Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



SiO2 Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



Refractive Indices for SiO2
(0.2, 30.0) μm

Real Indices

Imaginary Indices

SiO2_alpha_palik Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

SiO2_alpha_palik Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

SiO2_alpha_palik Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

Refractive Indices for SiO2
(0.2, 30.0) μm

Real Indices

Imaginary Indices

SiO2_amorph Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

SiO2_amorph Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

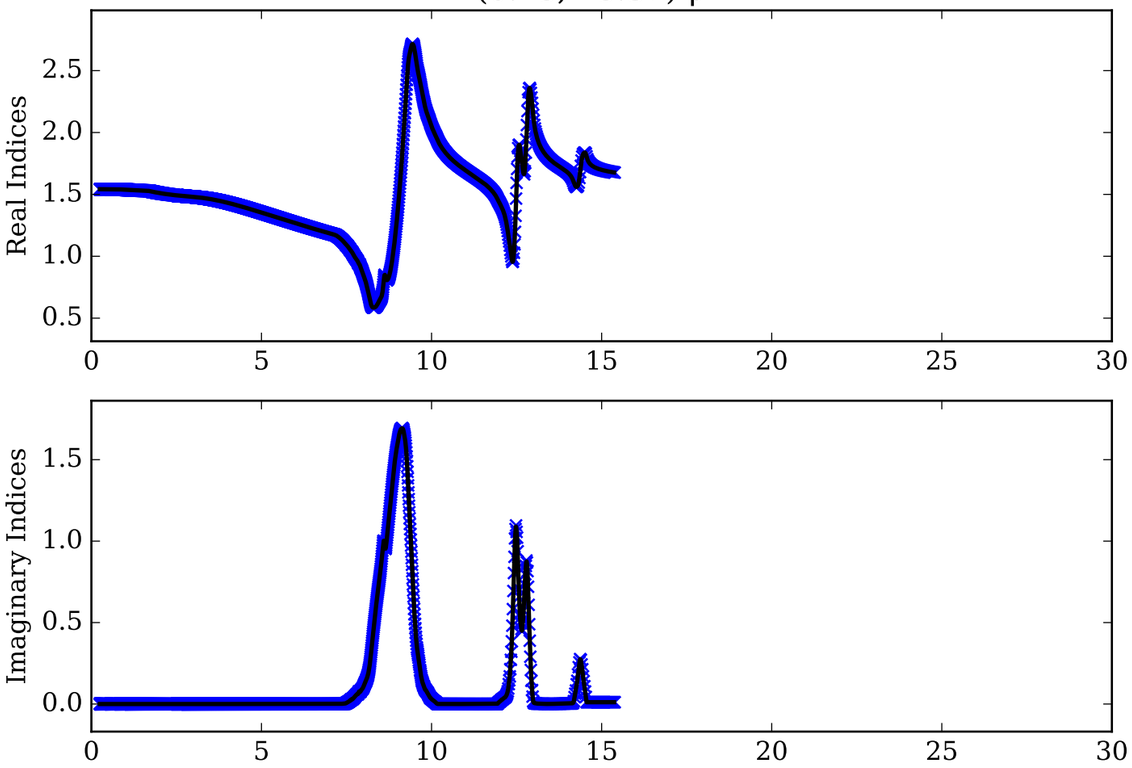
SiO2_amorph Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

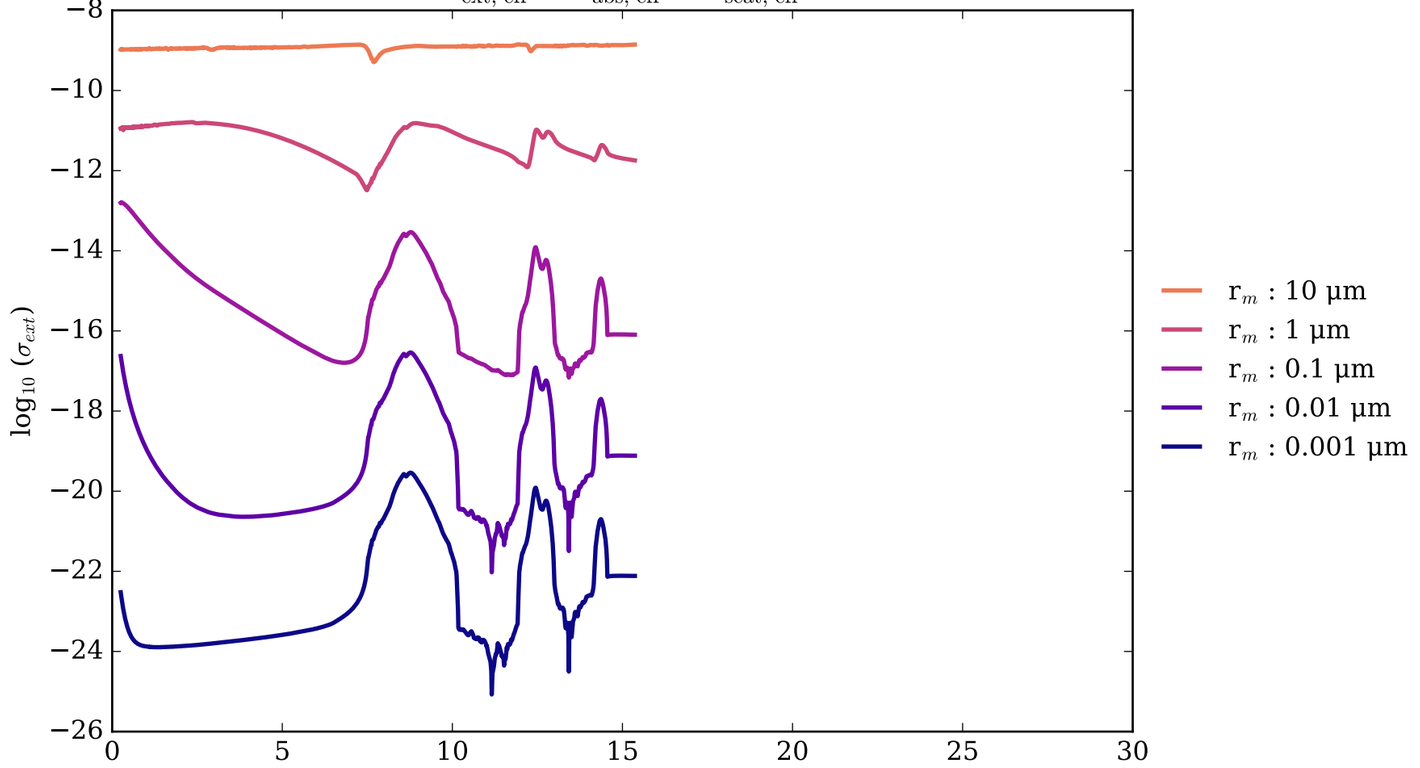
r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

Refractive Indices for SiO2
(0.25, 15.37) μm

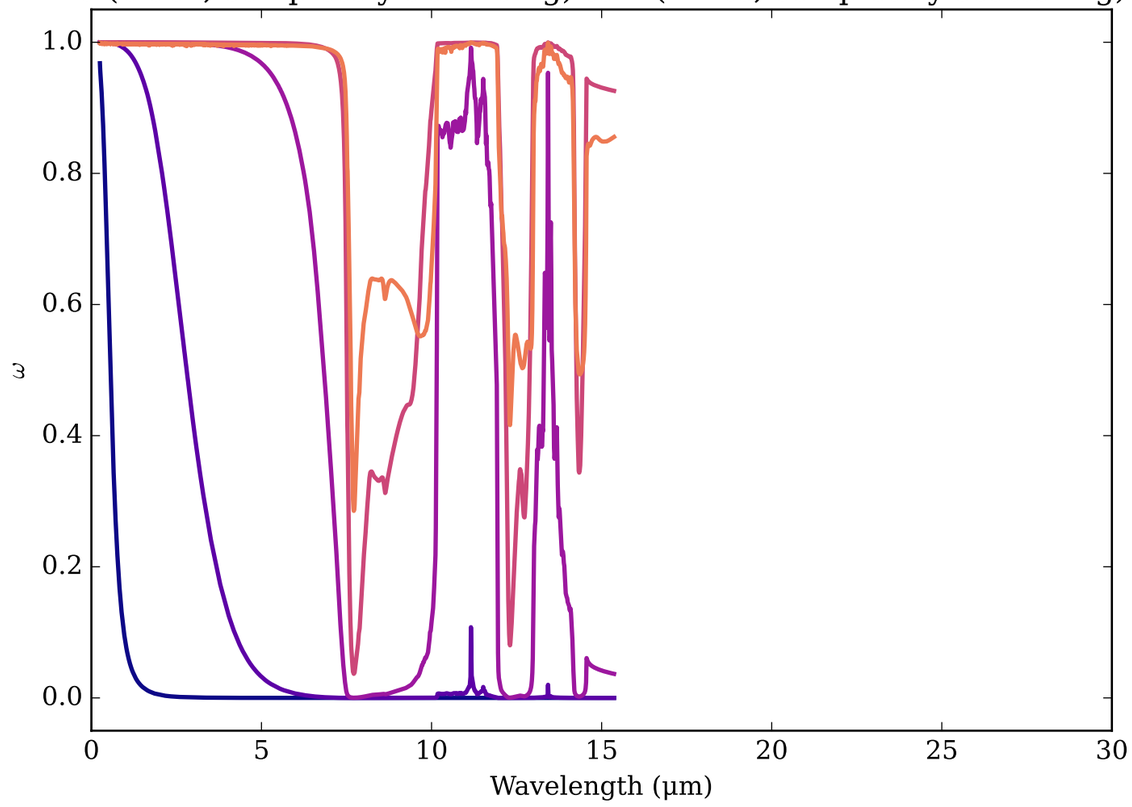


SiO2_crystalline_2023 Effective Extinction Cross Section

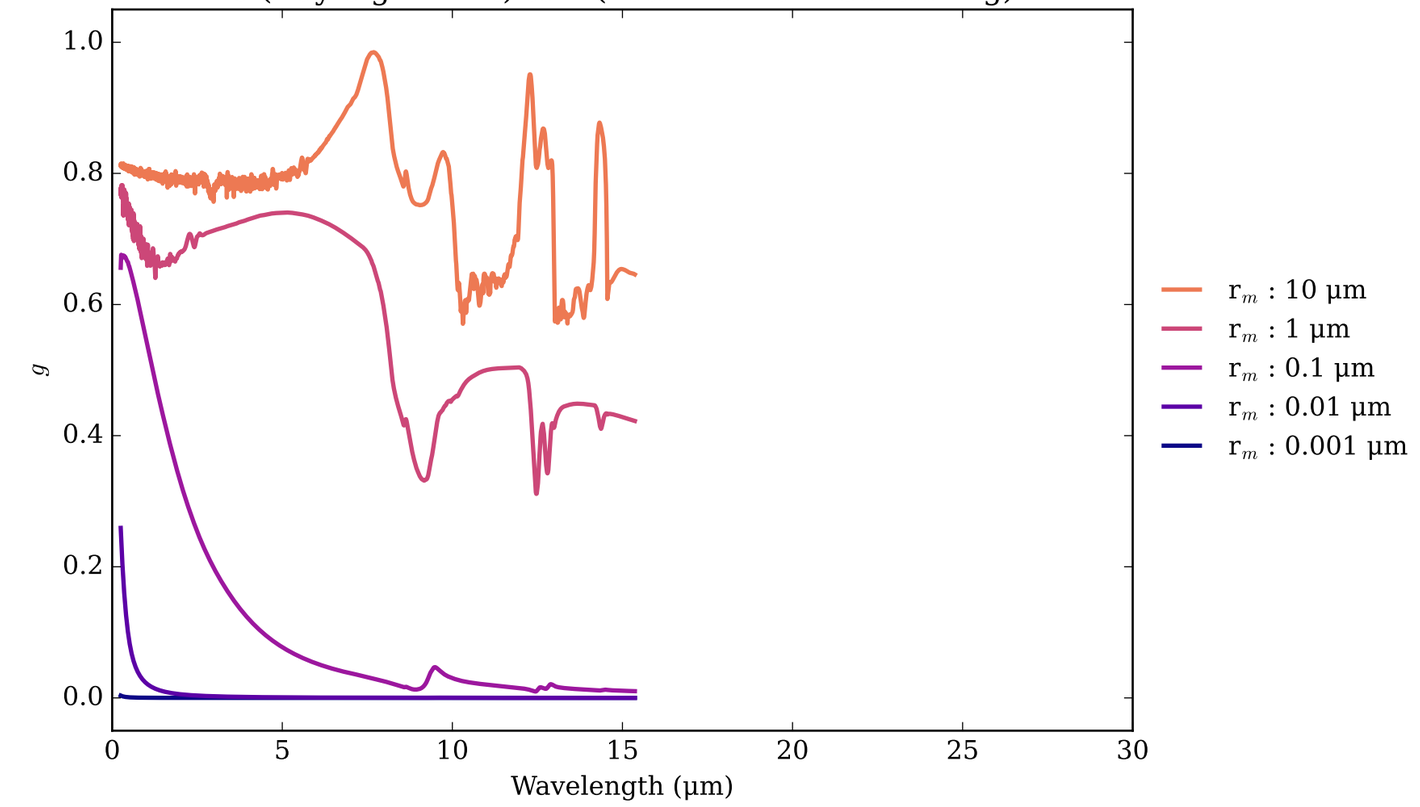
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



SiO2_crystalline_2023 Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



SiO2_crystalline_2023 Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



Refractive Indices for SiO2
(0.2, 30.0) μm

Real Indices

Imaginary Indices

SiO2_glass_palik Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

SiO2_glass_palik Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

SiO2_glass_palik Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

Refractive Indices for Soot
(0.2, 30.0) μm

Real Indices

Imaginary Indices

Soot Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

Soot Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

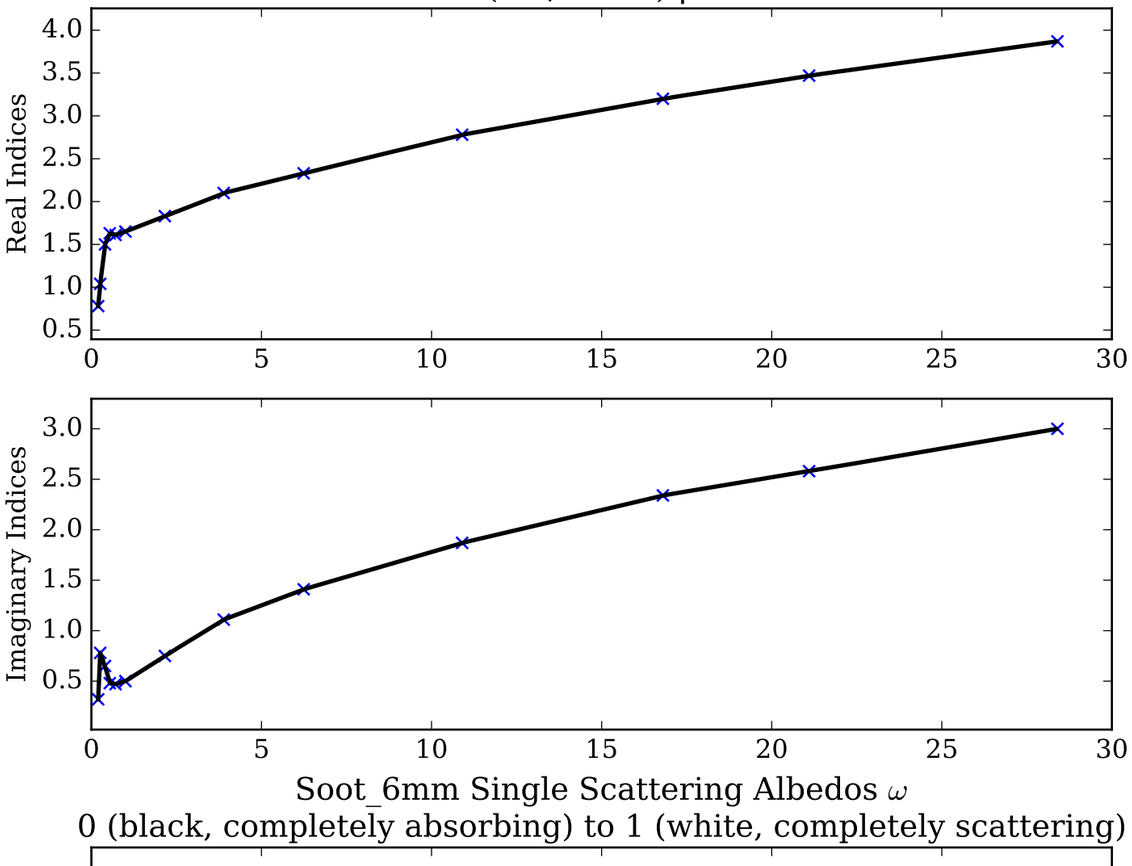
Wavelength (μm)

Soot Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

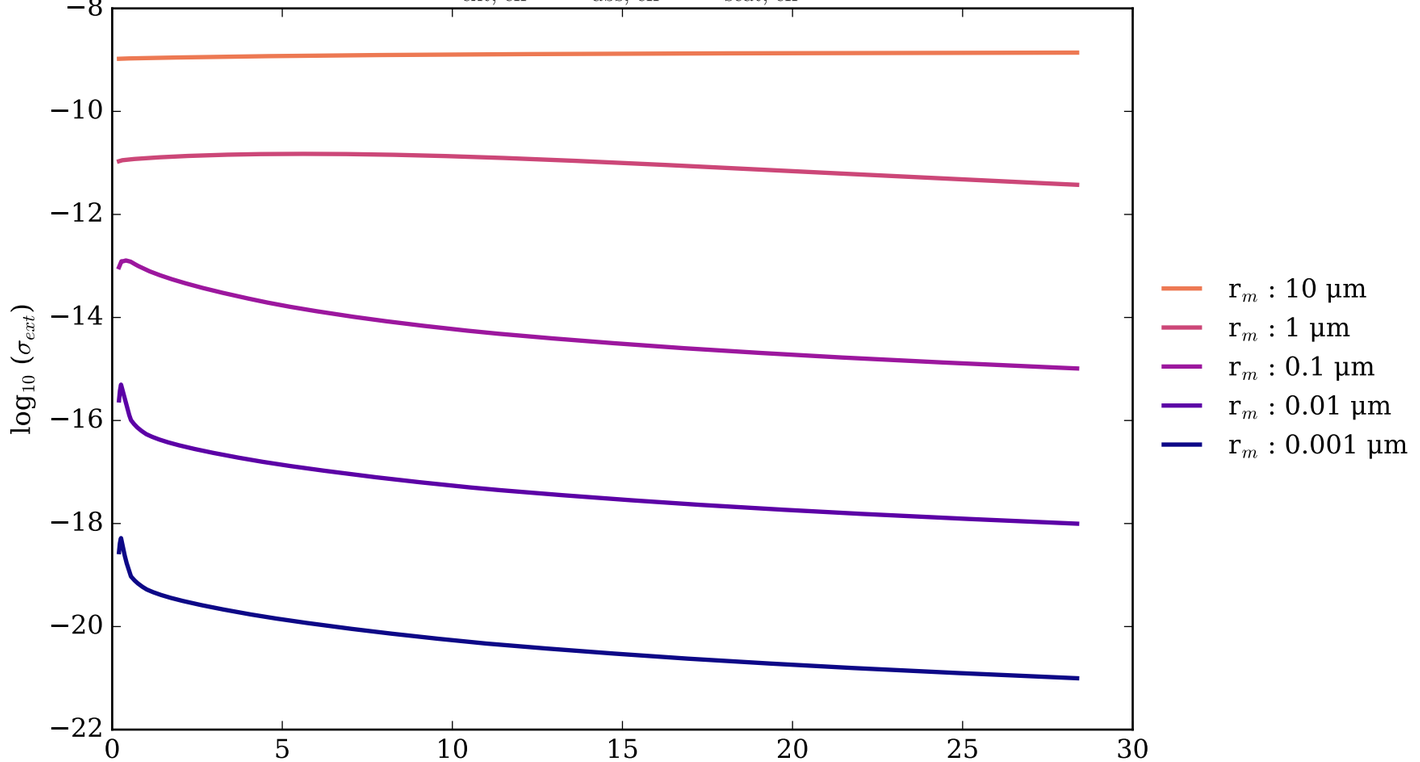
g

Wavelength (μm)

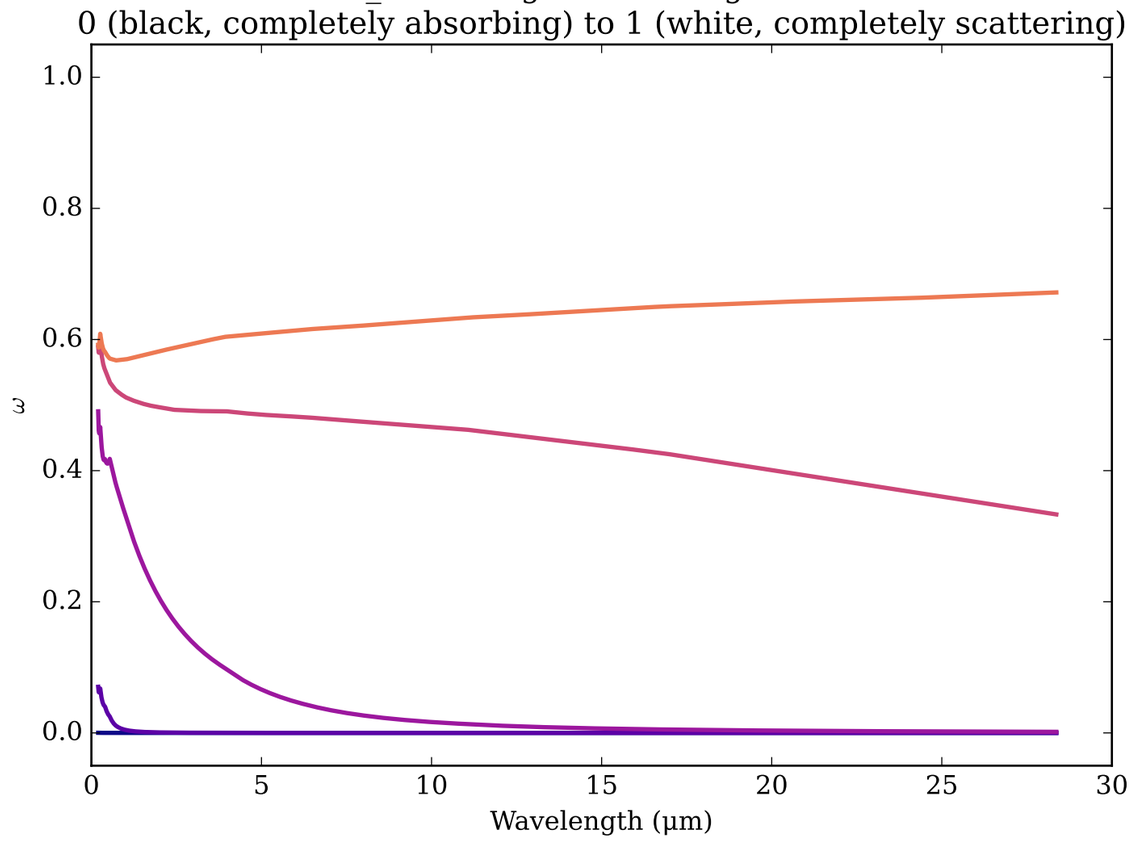
Refractive Indices for Soot
(0.2, 28.37) μm



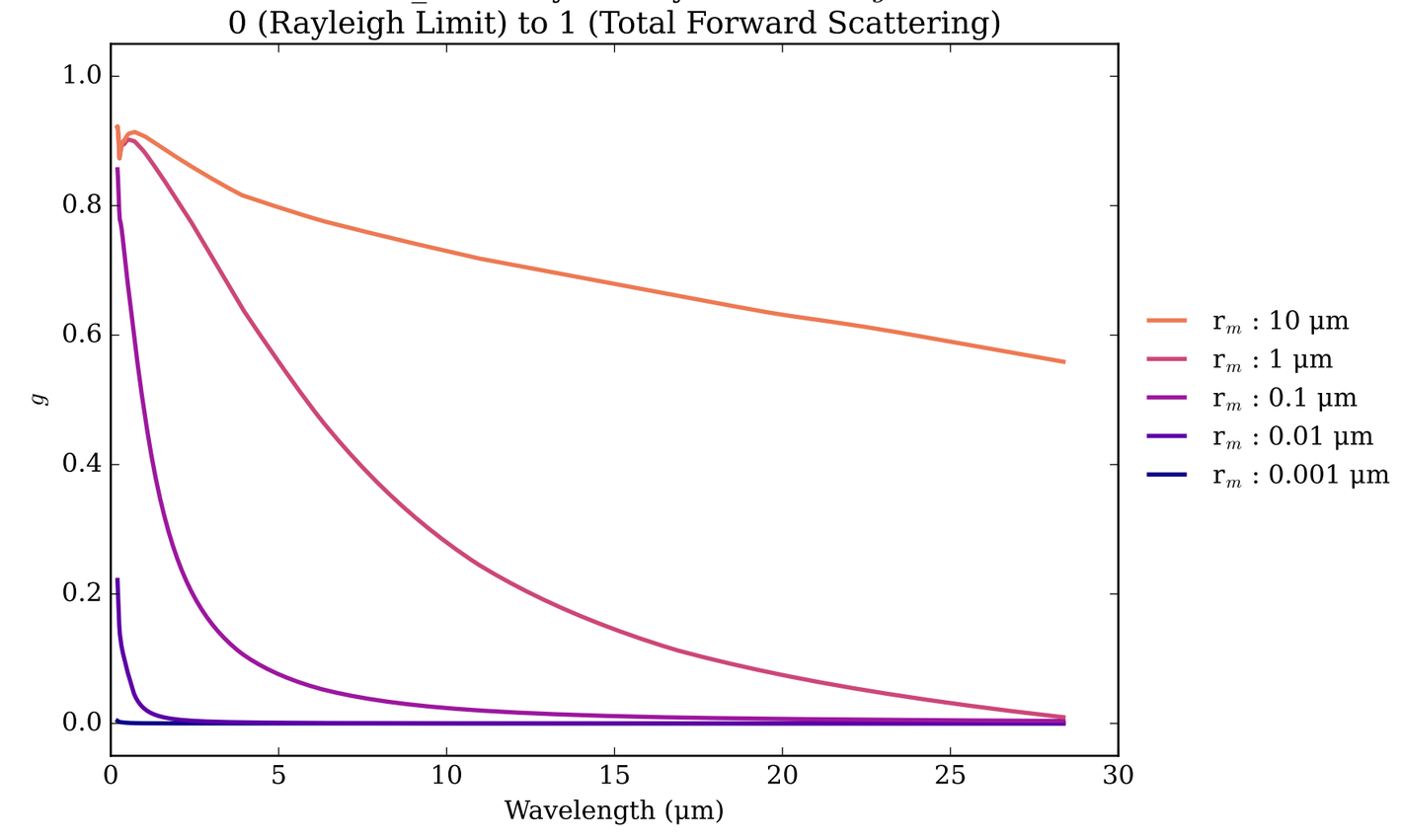
Soot_6mm Effective Extinction Cross Section
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



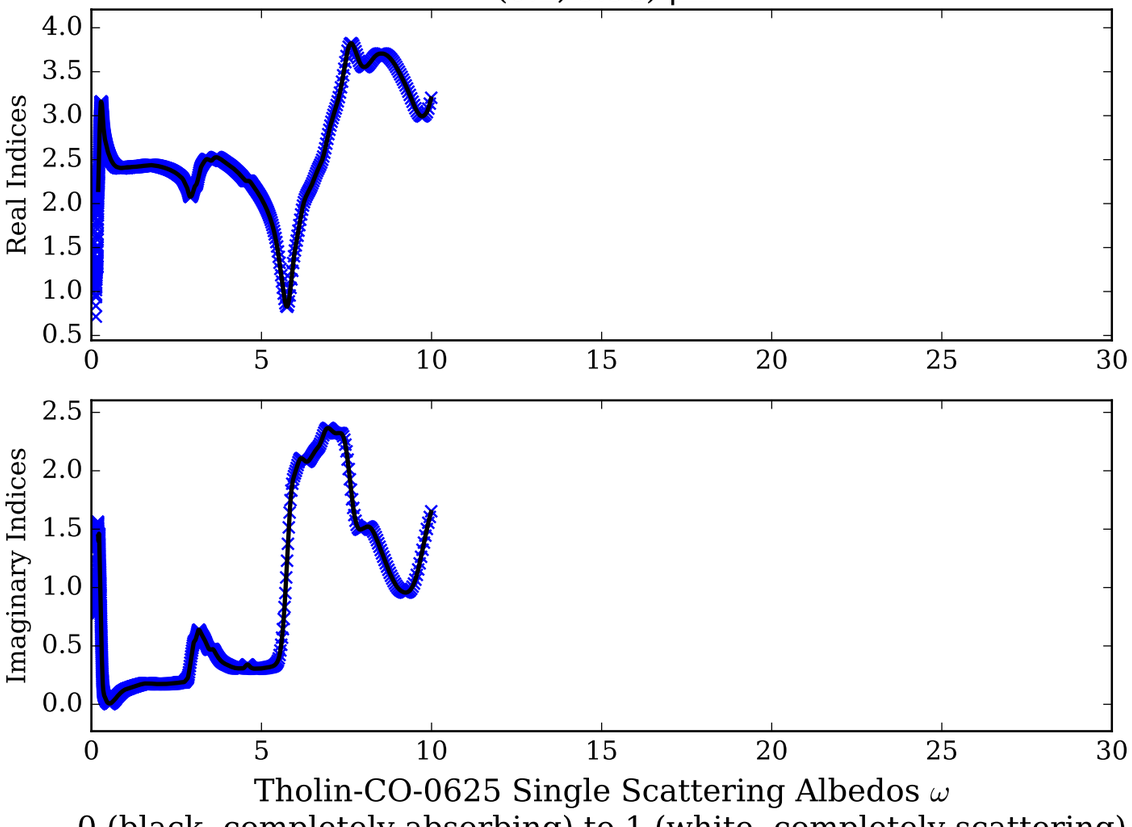
Soot_6mm Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Soot_6mm Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

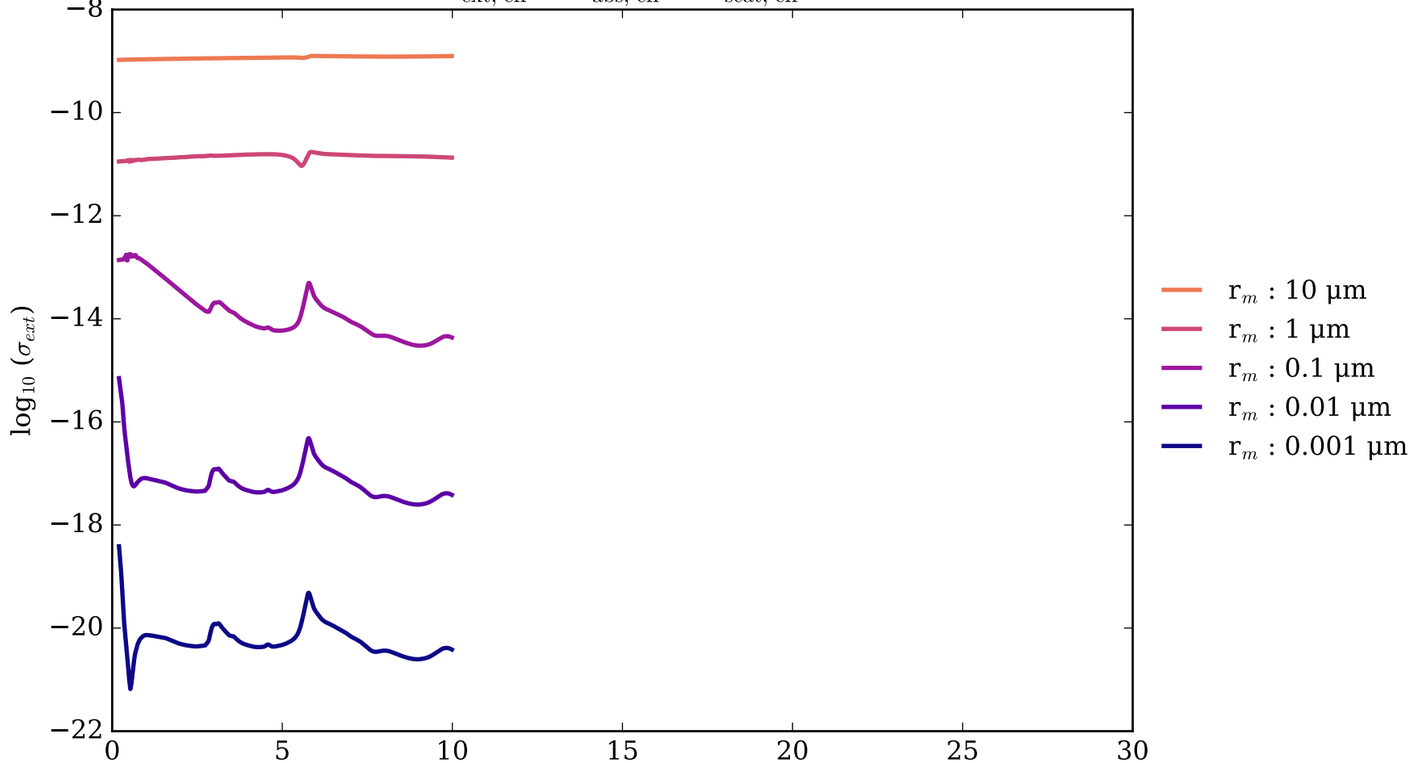


Refractive Indices for Tholin-CO-0625
(0.2, 9.98) μm

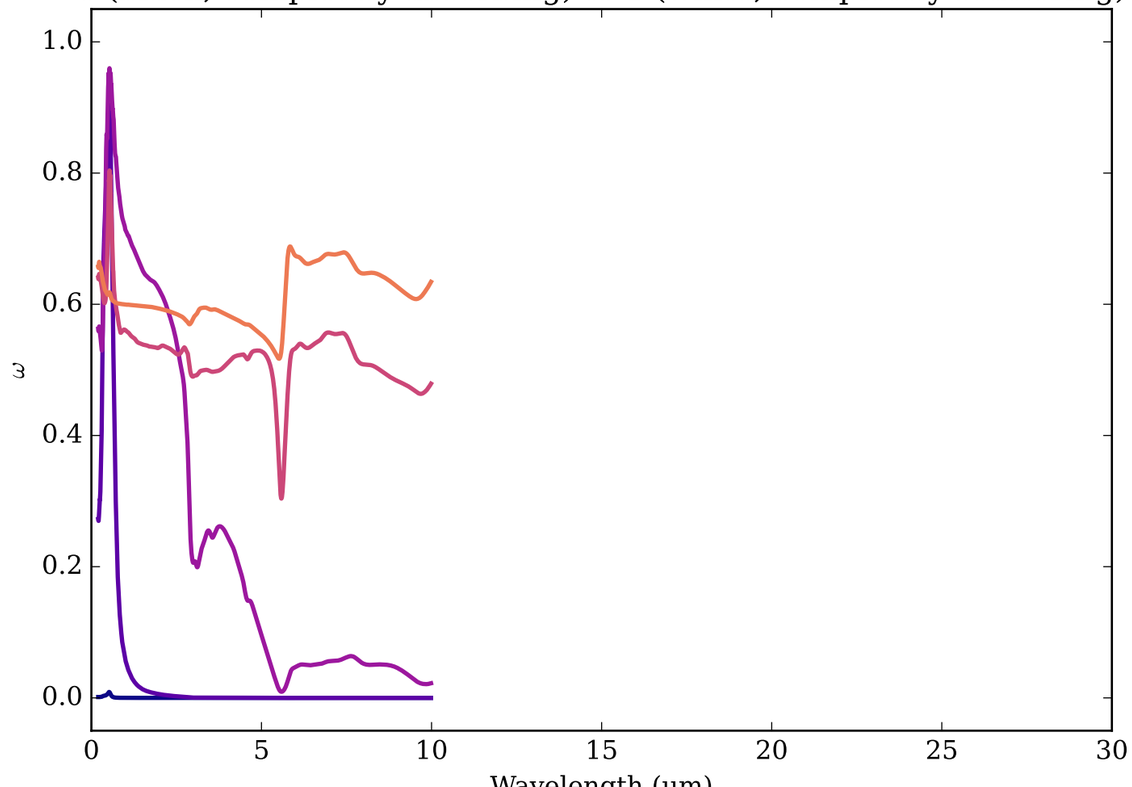


Tholin-CO-0625 Effective Extinction Cross Section

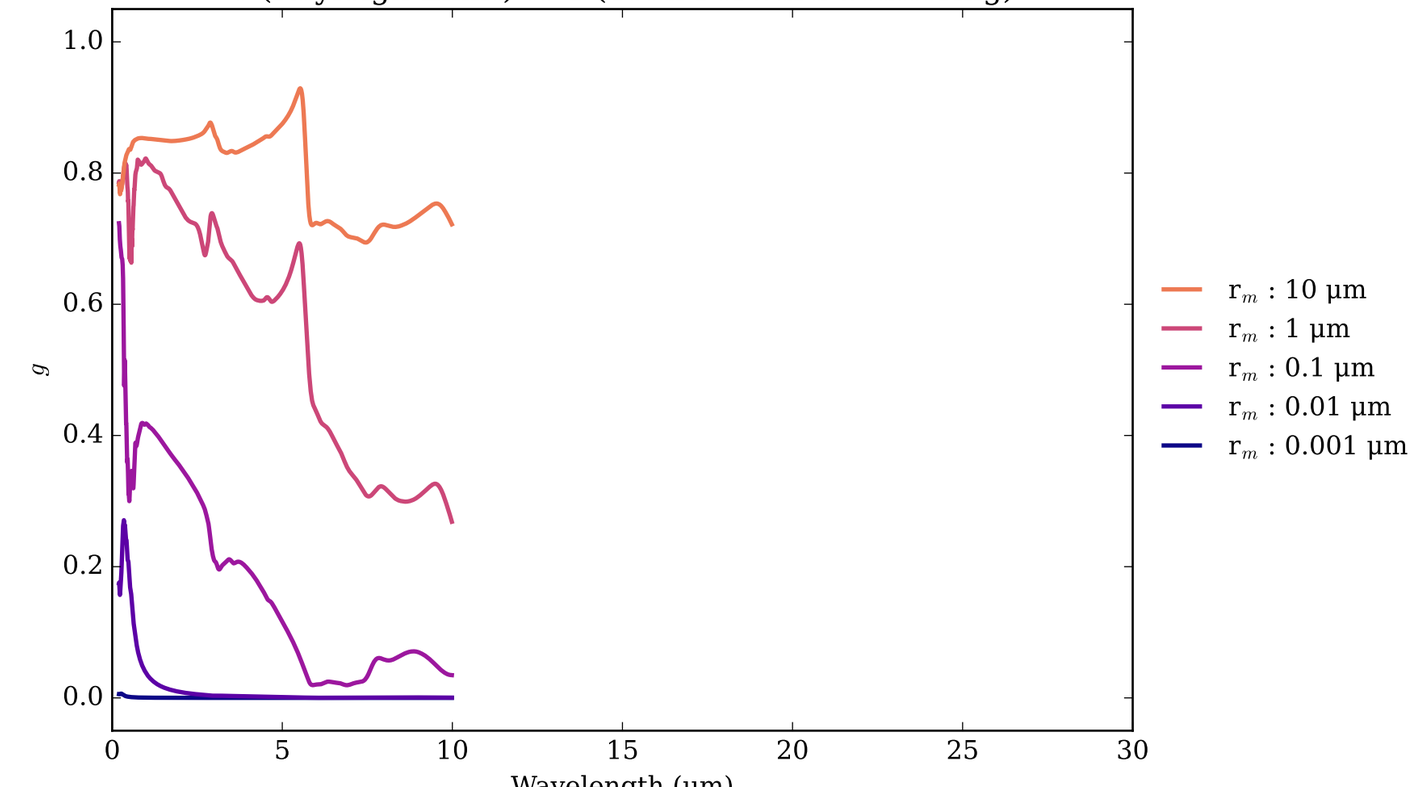
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



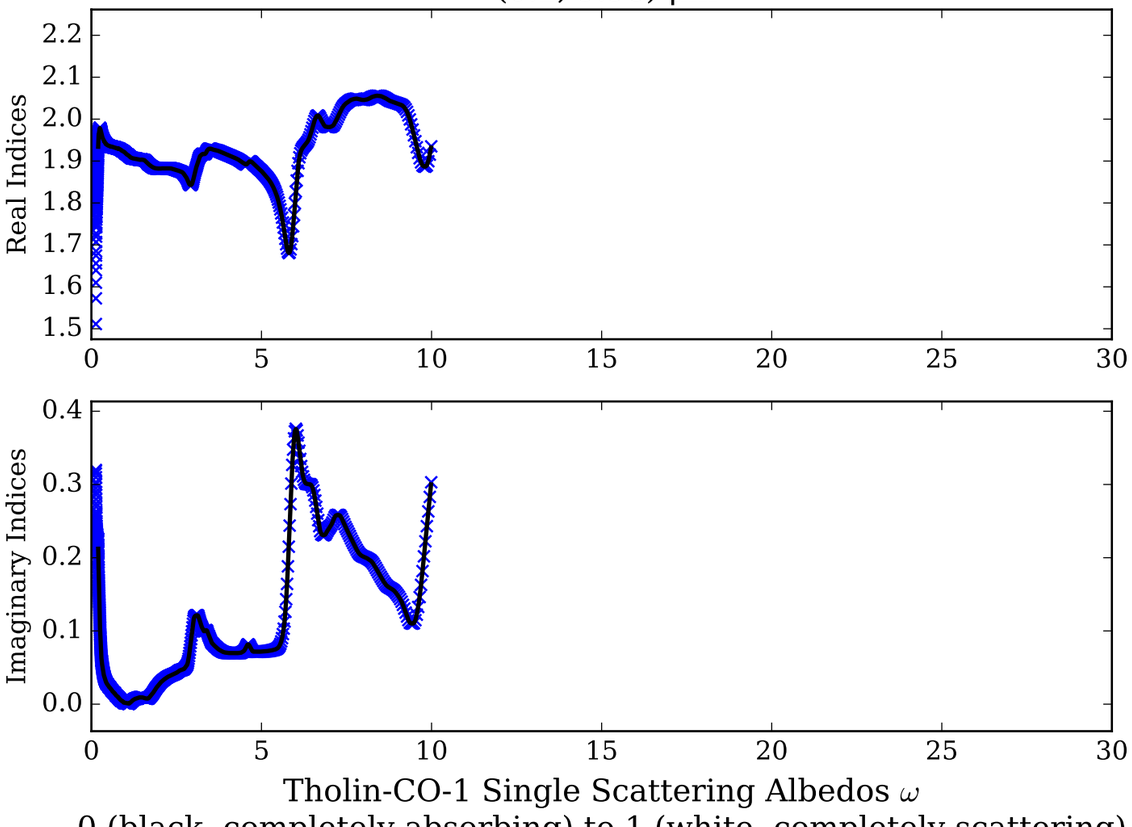
Tholin-CO-0625 Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Tholin-CO-0625 Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

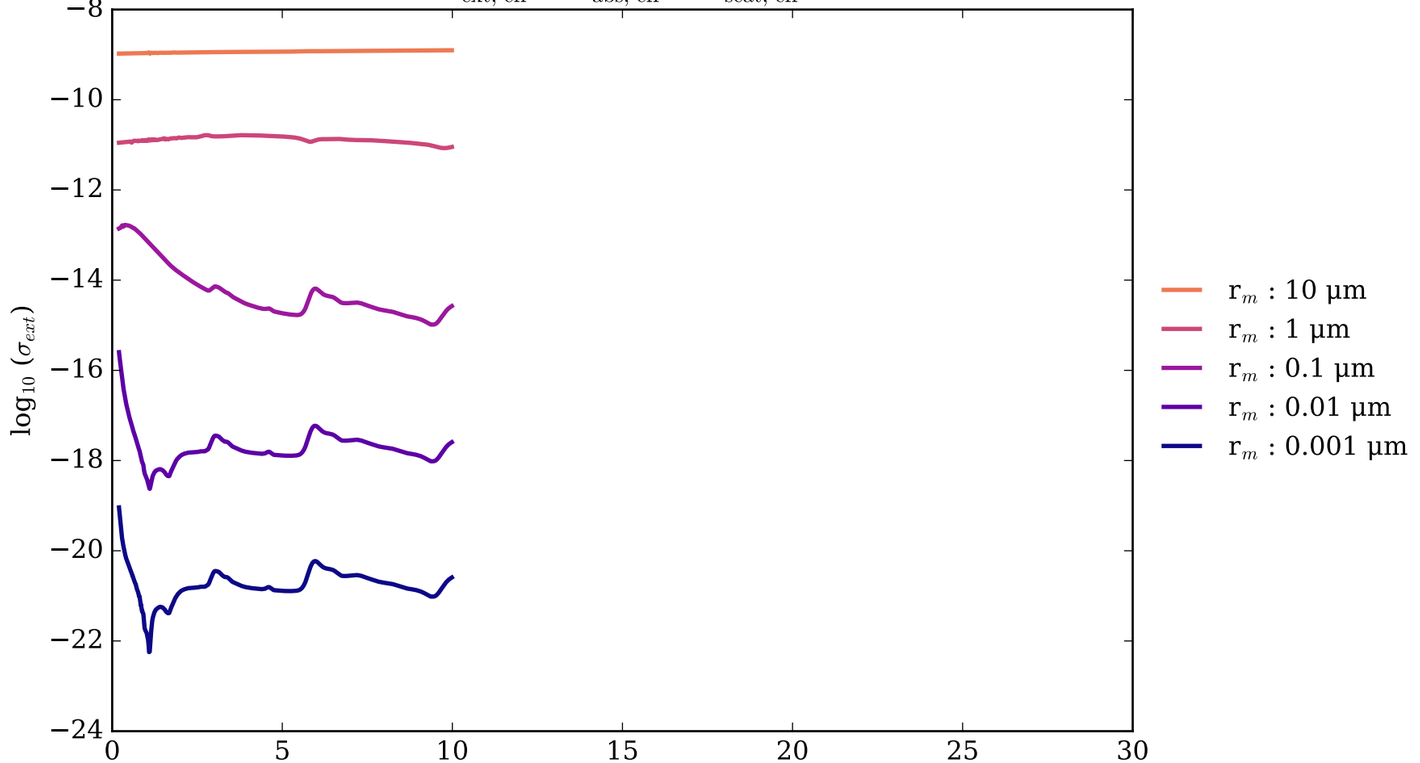


Refractive Indices for Tholin-CO-1
(0.2, 9.98) μm

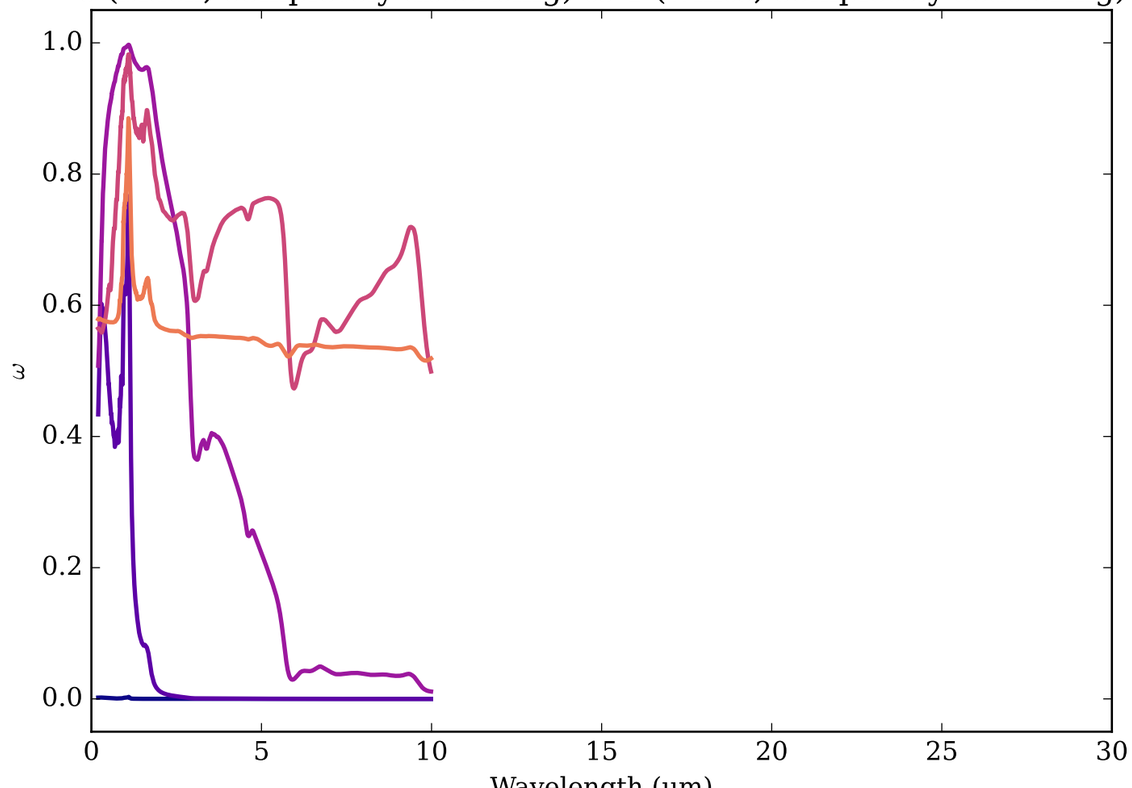


Tholin-CO-1 Effective Extinction Cross Section

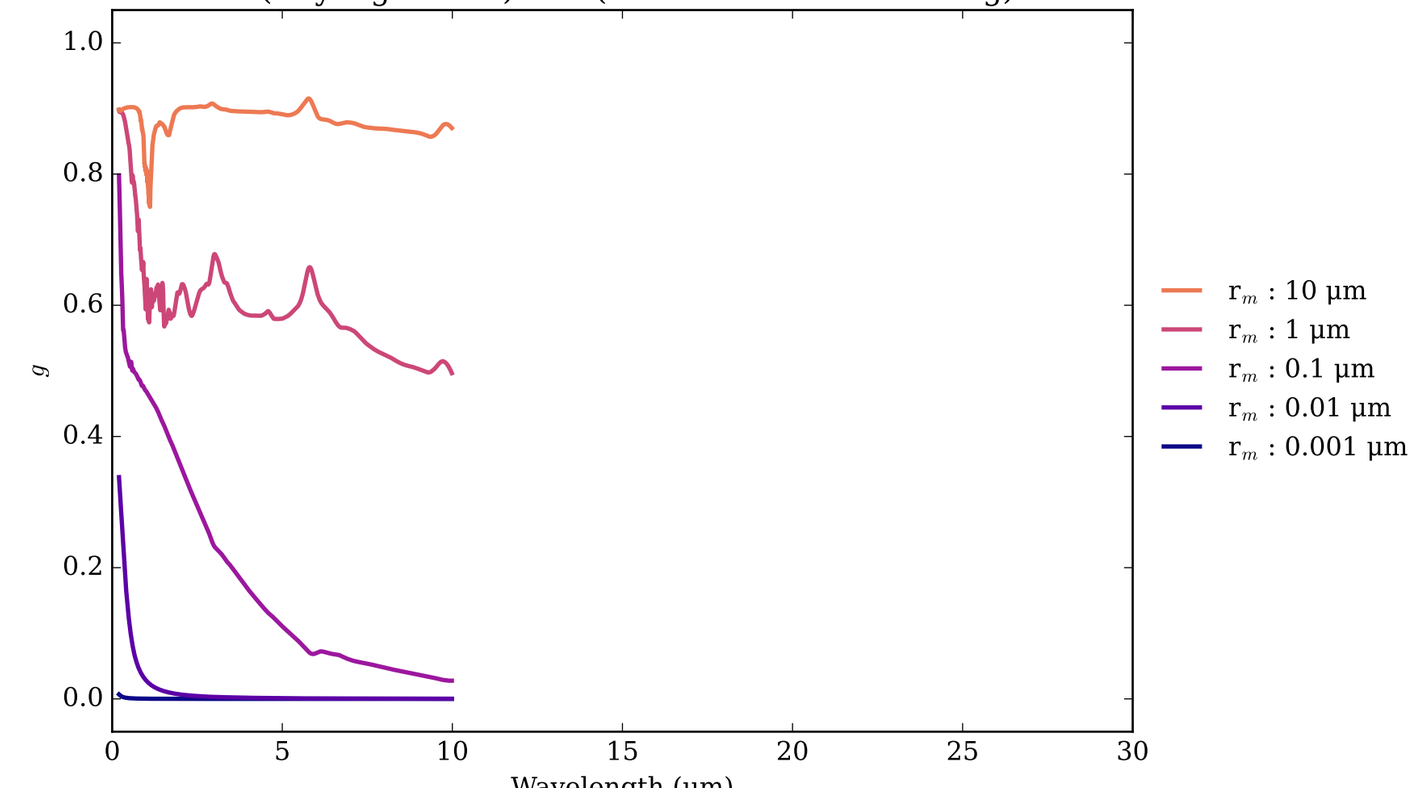
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



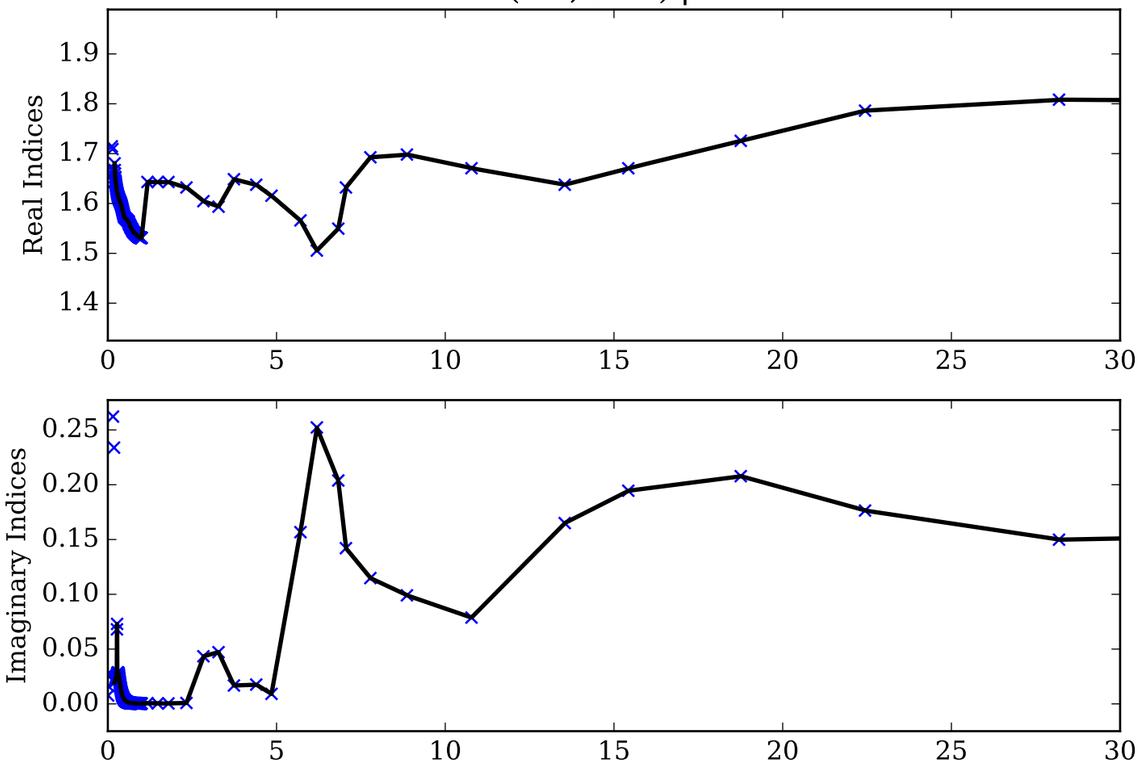
Tholin-CO-1 Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



Tholin-CO-1 Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

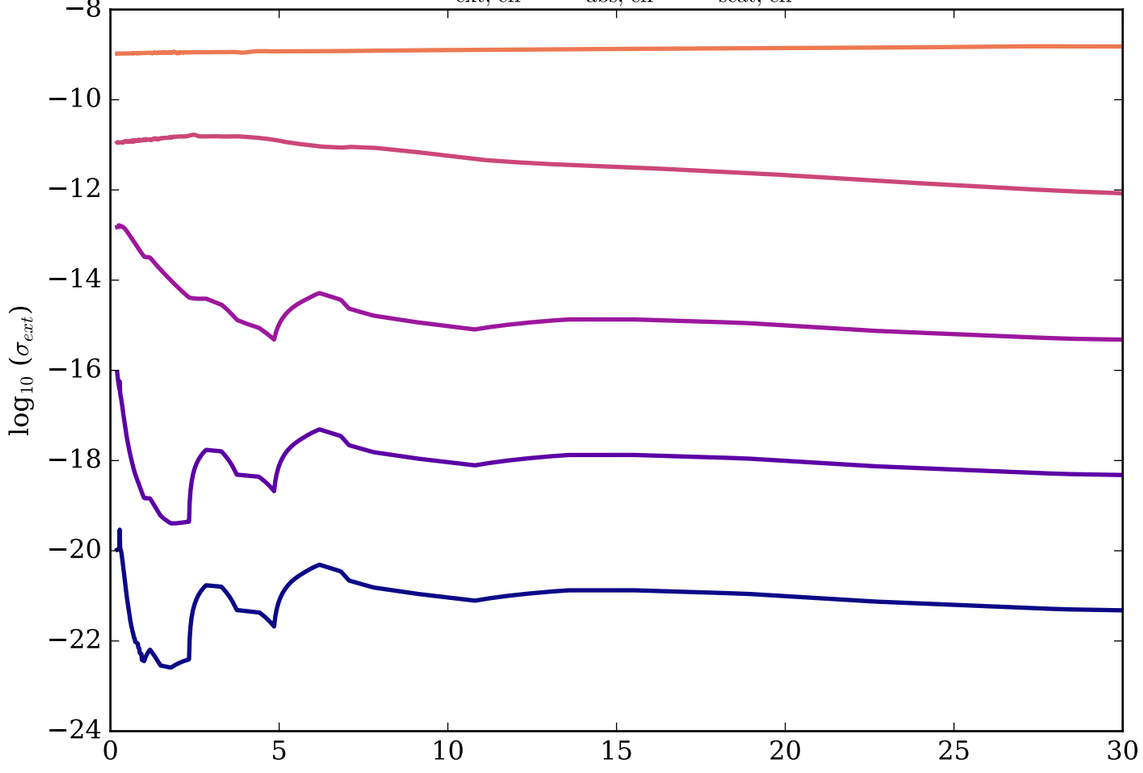


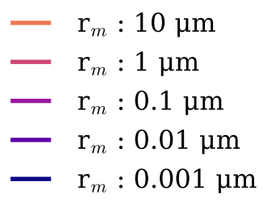
Refractive Indices for Tholin
(0.2, 30.0) μm



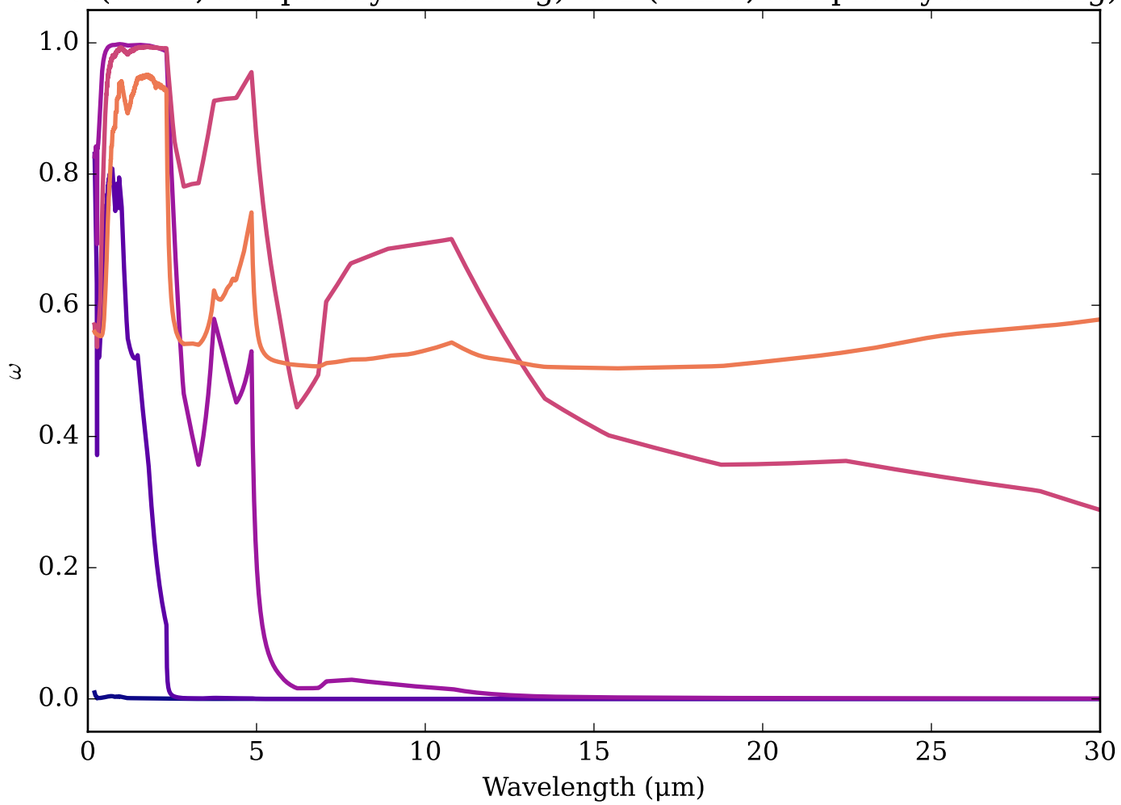
Tholin Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

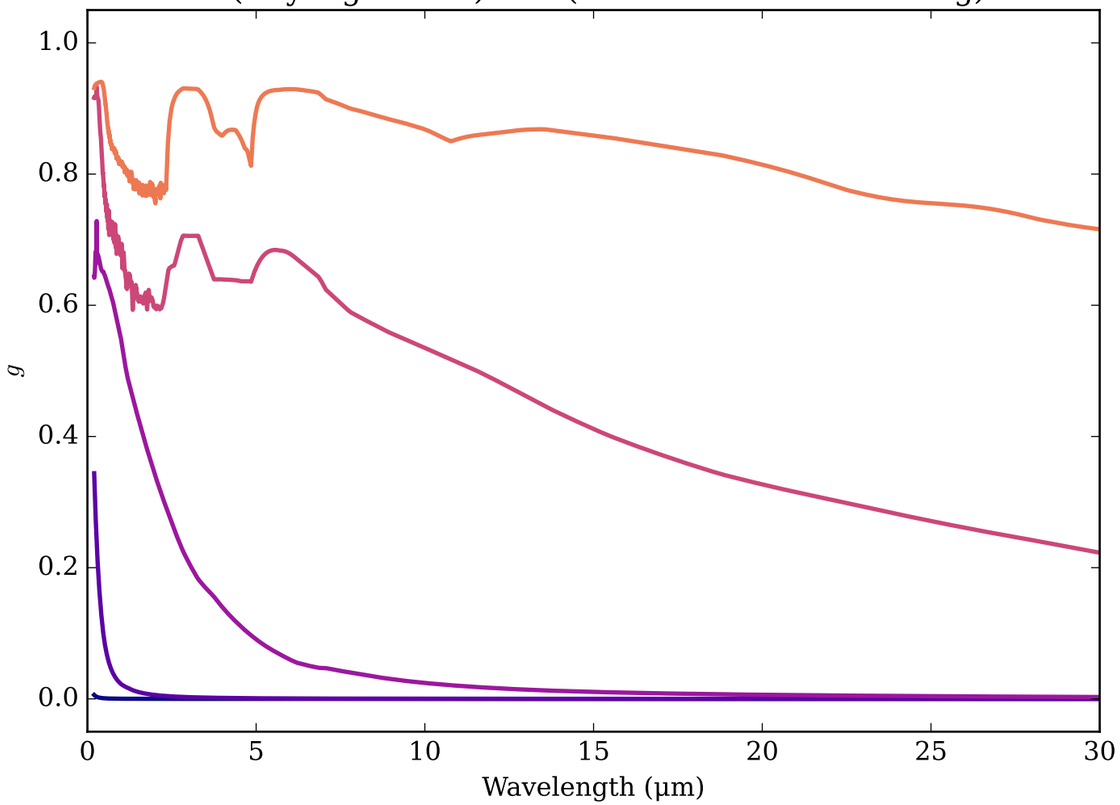


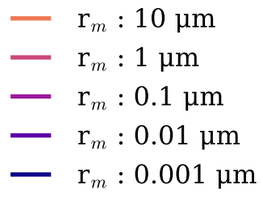


Tholin Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

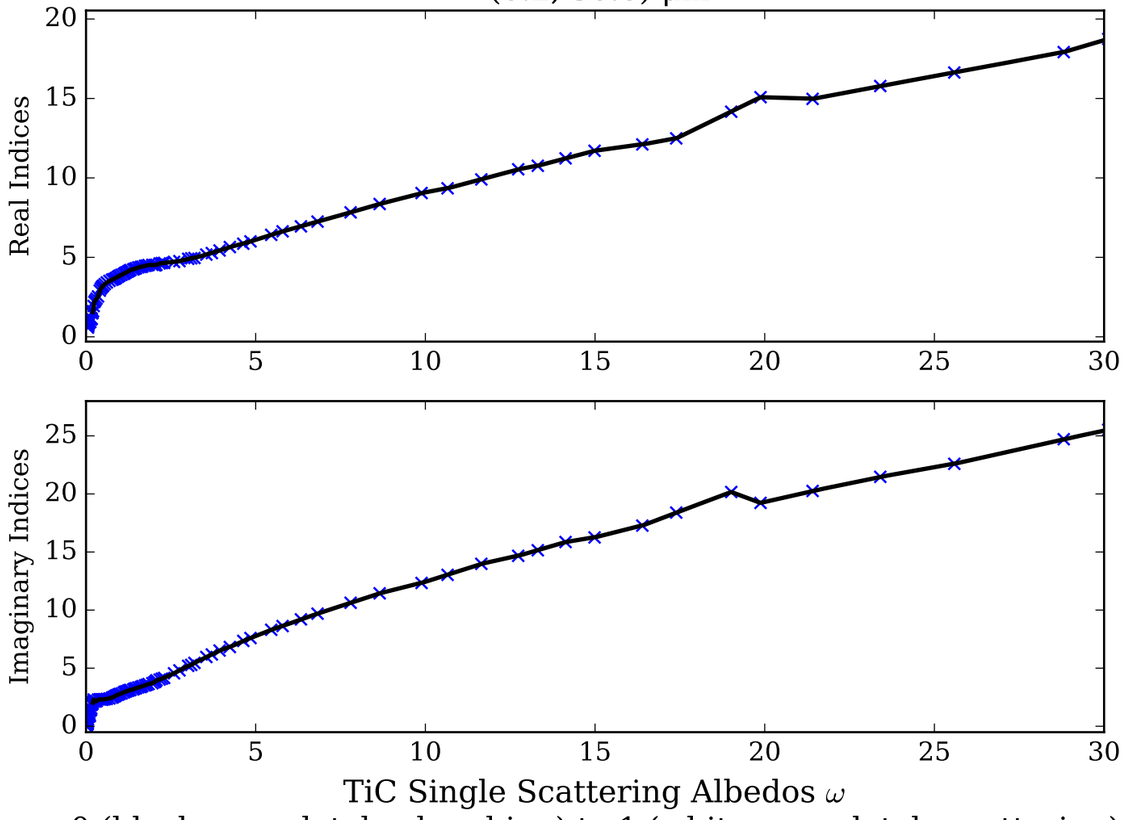


Tholin Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



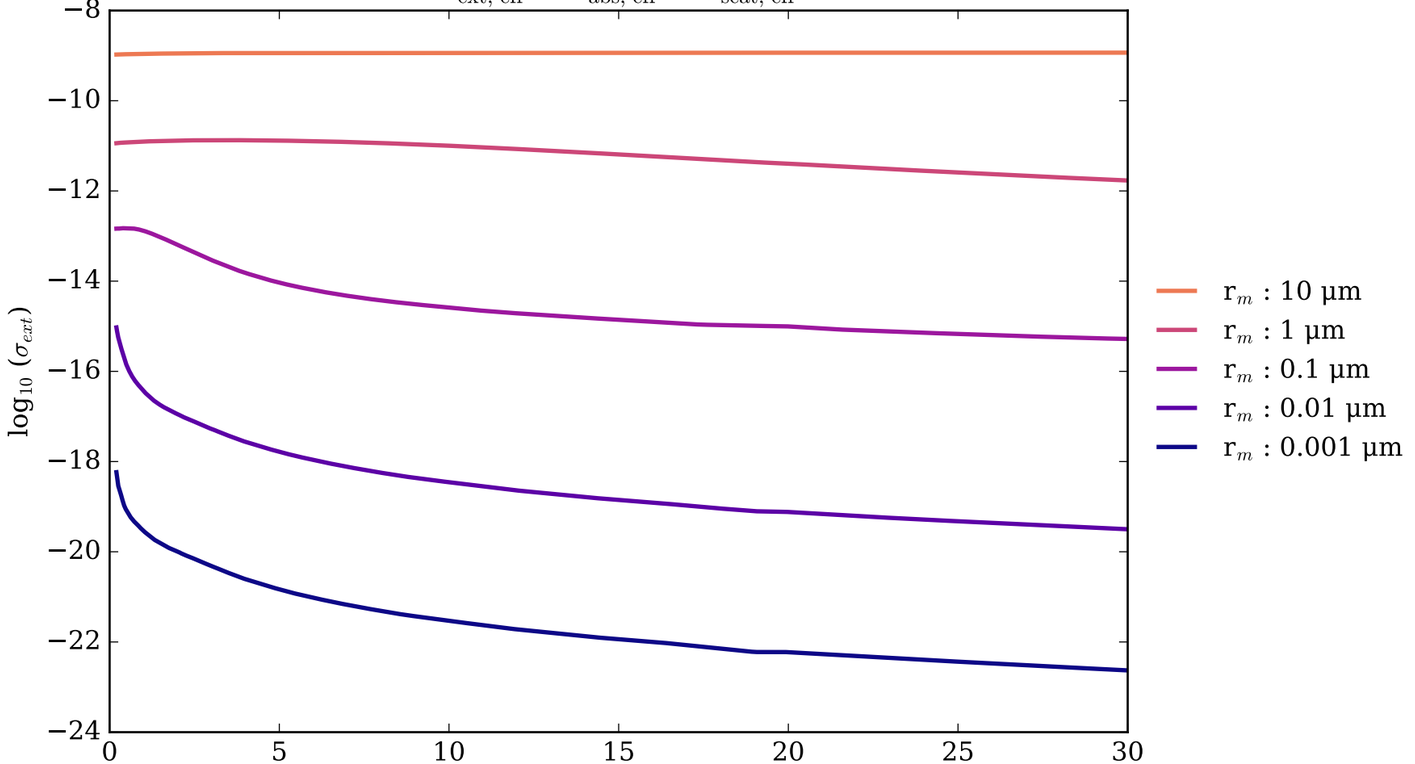


Refractive Indices for TiC
(0.2, 30.0) μm

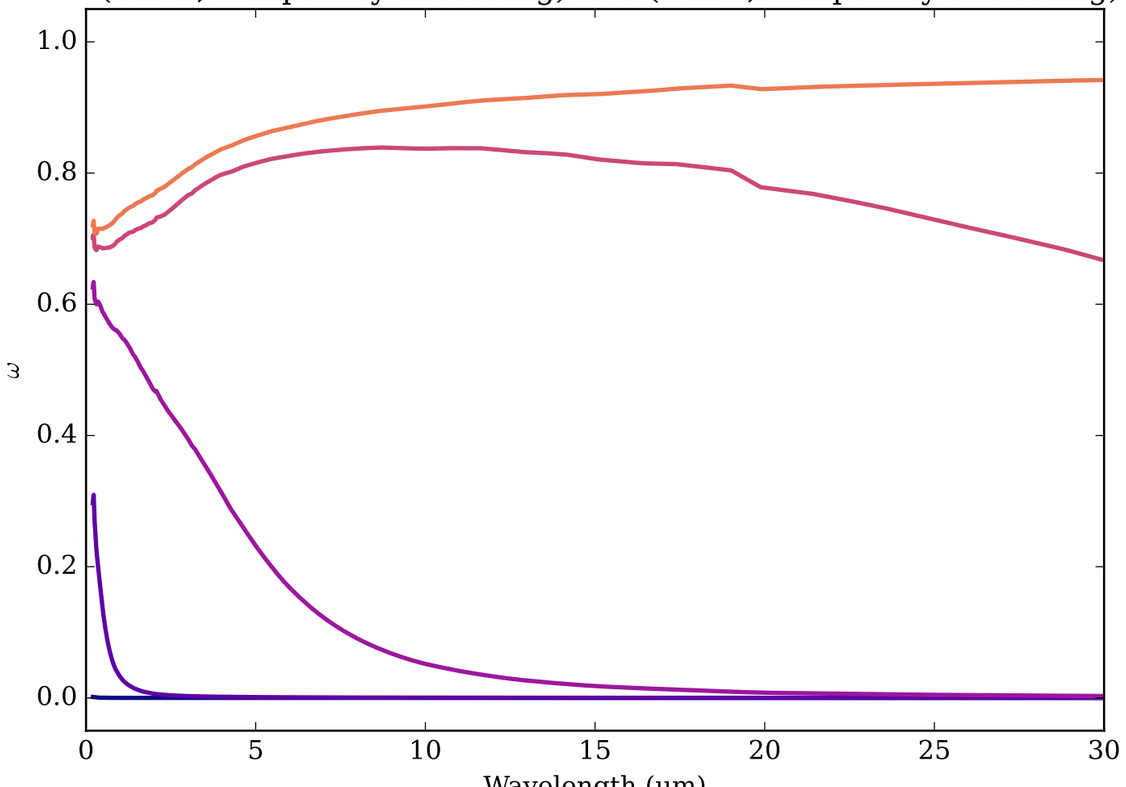


TiC Effective Extinction Cross Section

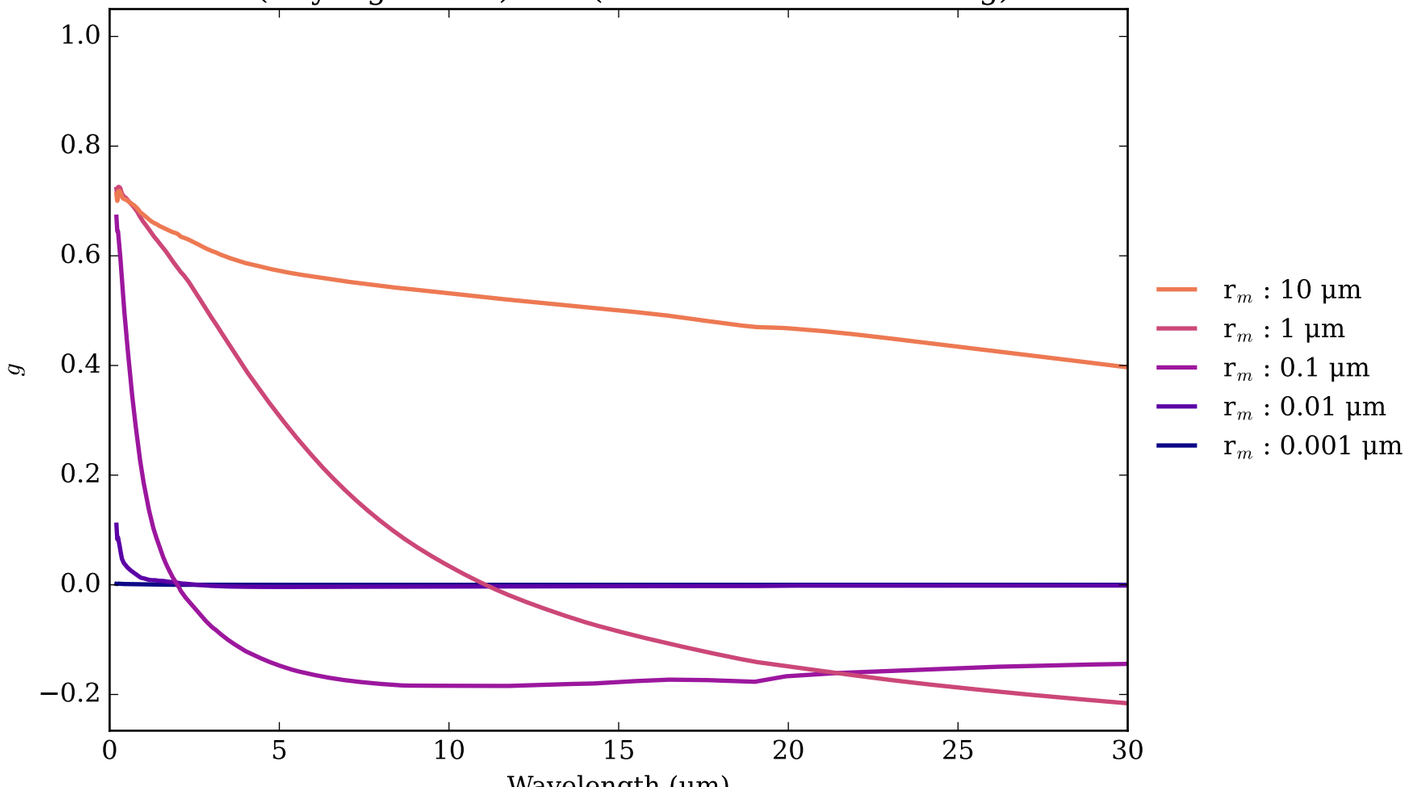
$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$



TiC Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)



TiC Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)



Refractive Indices for TiO2
(0.2, 30.0) μm

Real Indices

Imaginary Indices

TiO2_anatase Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

TiO2_anatase Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

TiO2_anatase Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

Refractive Indices for TiO2
(0.47, 30.0) μm

Real Indices

Imaginary Indices

TiO2_rutile Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

TiO2_rutile Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

TiO2_rutile Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

Refractive Indices for VO
(0.3, 30.0) μm

Real Indices

Imaginary Indices

VO Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm

VO Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

VO Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

Refractive Indices for ZnS
(0.22, 30.0) μm

Real Indices

Imaginary Indices

ZnS Effective Extinction Cross Section

$\sigma_{\text{ext, eff}} = \sigma_{\text{abs, eff}} + \sigma_{\text{scat, eff}}$

$\log_{10}(\sigma_{ext})$

ZnS Single Scattering Albedos ω
0 (black, completely absorbing) to 1 (white, completely scattering)

ω

Wavelength (μm)

ZnS Asymmetry Parameter g
0 (Rayleigh Limit) to 1 (Total Forward Scattering)

g

Wavelength (μm)

r_m : 10 μm
r_m : 1 μm
r_m : 0.1 μm
r_m : 0.01 μm
r_m : 0.001 μm