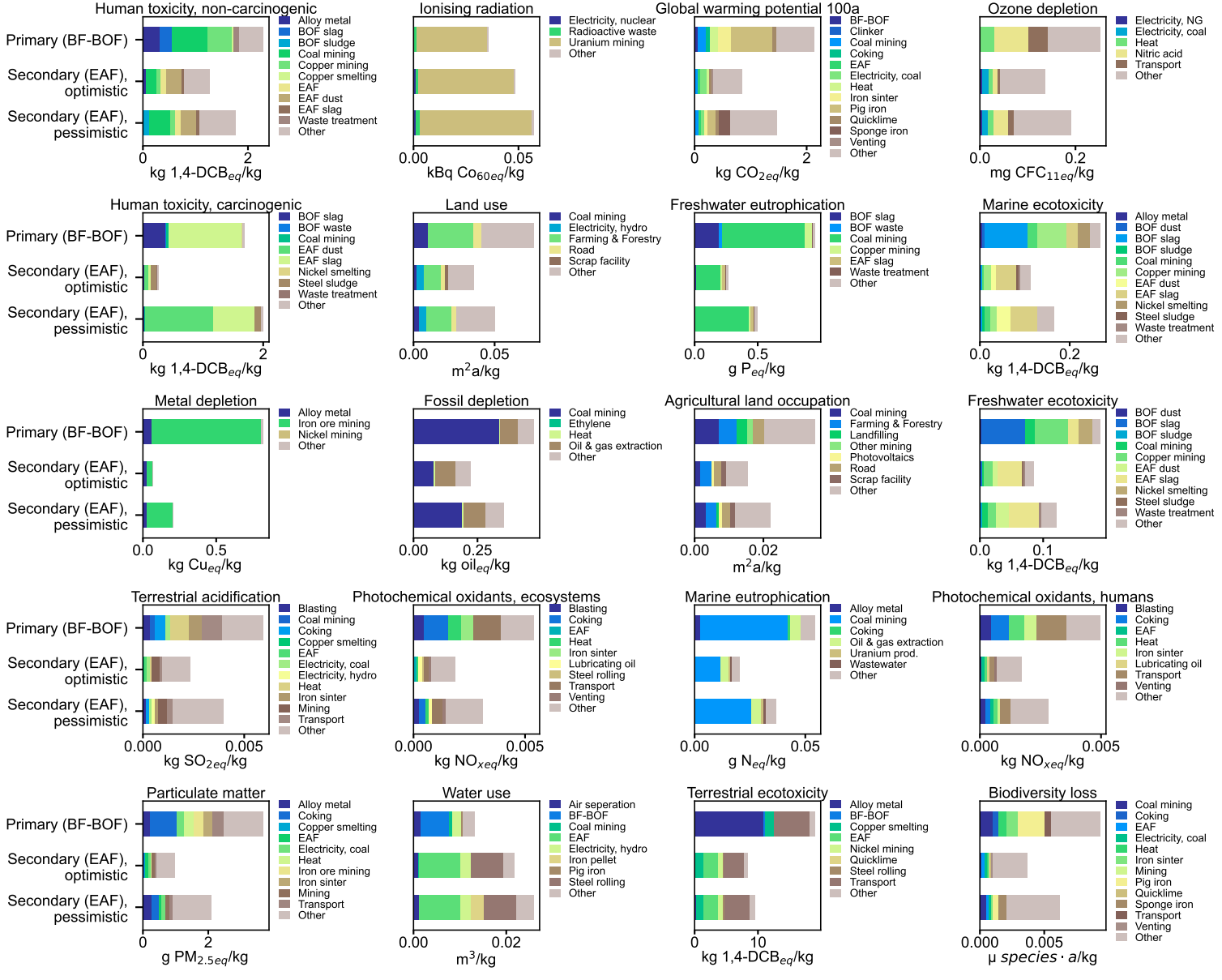
Human toxicity, non-carcinogenic
Primary (BF-BOF)
Secondary (EAF), optimistic
Secondary (EAF), pessimistic
0
2
kg 1,4-DCB$_{eq}$/kg
Alloy metal
BOF slag
BOF sludge
Coal mining
Copper mining
Copper smelting
EAF
EAF dust
EAF slag
Waste treatment
Other
Ionising radiation
0.00
0.05
kBq Co$_{60eq}$/kg
Electricity, nuclear
Radioactive waste
Uranium mining
Other
Global warming potential 100a
0
2
kg CO$_{2eq}$/kg
BF-BOF
Clinker
Coal mining
Coking
EAF
Electricity, coal
Heat
Iron sinter
Pig iron
Quicklime
Sponge iron
Venting
Other
Ozone depletion
0.0
0.2
mg CFC$_{11eq}$/kg
Electricity, NG
Electricity, coal
Heat
Nitric acid
Transport
Other
Human toxicity, carcinogenic
Primary (BF-BOF)
Secondary (EAF), optimistic
Secondary (EAF), pessimistic
0
2
kg 1,4-DCB$_{eq}$/kg
BOF slag
BOF waste
Coal mining
EAF dust
EAF slag
Nickel smelting
Steel sludge
Waste treatment
Other
Land use
0.00
0.05
m^{2}a/kg
Coal mining
Electricity, hydro
Farming & Forestry
Road
Scrap facility
Other
Freshwater eutrophication
0.0
0.5
g P$_{eq}$/kg
BOF slag
BOF waste
Coal mining
Copper mining
EAF slag
Waste treatment
Other
Marine ecotoxicity
0.0
0.2
kg 1,4-DCB$_{eq}$/kg
Alloy metal
BOF dust
BOF slag
BOF sludge
Coal mining
Copper mining
EAF dust
EAF slag
Nickel smelting
Steel sludge
Waste treatment
Other
Metal depletion
Primary (BF-BOF)
Secondary (EAF), optimistic
Secondary (EAF), pessimistic
0.0
0.5
kg Cu$_{eq}$/kg
Alloy metal
Iron ore mining
Nickel mining
Other
Fossil depletion
0.00
0.25
kg oil$_{eq}$/kg
Coal mining
Ethylene
Heat
Oil & gas extraction
Other
Agricultural land occupation
0.00
0.02
m^{2}a/kg
Coal mining
Farming & Forestry
Landfilling
Other mining
Photovoltaics
Road
Scrap facility
Other
Freshwater ecotoxicity
0.0
0.1
kg 1,4-DCB$_{eq}$/kg
BOF dust
BOF slag
BOF sludge
Coal mining
Copper mining
EAF dust
EAF slag
Nickel smelting
Steel sludge
Waste treatment
Other
Terrestrial acidification
Primary (BF-BOF)
Secondary (EAF), optimistic
Secondary (EAF), pessimistic
0.000
0.005
kg SO$_{2eq}$/kg
Blasting
Coal mining
Coking
Copper smelting
EAF
Electricity, coal
Electricity, hydro
Heat
Iron sinter
Mining
Transport
Other
Photochemical oxidants, ecosystems
0.000
0.005
kg NO$_{xeq}$/kg
Blasting
Coking
EAF
Heat
Iron sinter
Lubricating oil
Steel rolling
Transport
Venting
Other
Marine eutrophication
0.00
0.05
g N$_{eq}$/kg
Alloy metal
Coal mining
Coking
Oil & gas extraction
Uranium prod.
Wastewater
Other
Photochemical oxidants, humans
0.000
0.005
kg NO$_{xeq}$/kg
Blasting
Coking
EAF
Heat
Iron sinter
Lubricating oil
Transport
Venting
Other
Particulate matter
Primary (BF-BOF)
Secondary (EAF), optimistic
Secondary (EAF), pessimistic
0
2
g PM$_{2.5eq}$/kg
Alloy metal
Coking
Copper smelting
EAF
Electricity, coal
Heat
Iron ore mining
Iron sinter
Mining
Transport
Other
Water use
0.00
0.02
m^3/kg
Air seperation
BF-BOF
Coal mining
EAF
Electricity, hydro
Iron pellet
Pig iron
Steel rolling
Other
Terrestrial ecotoxicity
0
10
kg 1,4-DCB$_{eq}$/kg
Alloy metal
BF-BOF
Copper smelting
EAF
Nickel mining
Quicklime
Steel rolling
Transport
Other
Biodiversity loss
0.000
0.005
μ species · a/kg
Coal mining
Coking
EAF
Electricity, coal
Heat
Iron sinter
Mining
Pig iron
Quicklime
Sponge iron
Transport
Venting
Other