

Chemical bonding

A-Level Chemistry · Vocabulary

English	中文	Pinyin
 electronegativity	电负性	diàn fù xìng
 electron	电子	diàn zi
 nuclear charge	核电荷	hé diàn hè
 atomic radius	原子半径	yuán zi bàn jìng
 shielding	屏蔽	píng bì
 Pauling electronegativity	鲍林电负性	bào lín diàn fù xìng
 ionic bonding	离子键	lí zi jiàn
 electrostatic attraction	静电引力	jìng diàn yǐn lì
$\pm$ ion	离子	lí zi
$\oplus$ cation	阳离子	yáng lí zi
$\ominus$ anion	阴离子	yīn lí zi
 lattice	晶格	jīng gé
 metallic bonding	金属键	jīn shǔ jiàn
 delocalised electrons	离域电子	lí yù diàn zi
 covalent bonding	共价键	gòng jià jiàn
 expand the octet	扩展八隅体	kuò zhǎn bā yú tǐ
$\rightarrow$ coordinate bond	配位键	pèi wèi jiàn
 orbital	轨道	guǐ dào
$-$ sigma bond	σ 键	σ jiàn
 overlap	重叠	chóng dié
$=$ pi bond	π 键	π jiàn
 hybridisation	杂化	zá huà
 bond energy	键能	jiàn néng
 bond length	键长	jiàn zhǎng

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⚬ VSEPR theory	价层电子对互斥理论	jià céng diàn zi duì hù chì lǐ lùn
⦿ lone pair	孤对电子	gū duì diàn zi
↷ bonding pair	成键电子对	chéng jiàn diàn zi duì
△ bond angle	键角	jiàn jiǎo
— linear	直线形	zhí xiàn xíng
△ trigonal planar	平面三角形	píng miàn sān jiǎo xíng
⚱ tetrahedral	四面体形	sì miàn tǐ xíng
△ pyramidal	三角锥形	sān jiǎo zhuī xíng
↷ bent	角形	jiǎo xíng
⚱ trigonal bipyramidal	三角双锥形	sān jiǎo shuāng zhuī xíng
⬡ octahedral	八面体形	bā miàn tǐ xíng
↷ intermolecular forces	分子间作用力	fēn zǐ jiàn zuò yòng lì
⬡ molecule	分子	fēn zǐ
↷ polarity	极性	jí xìng
↔ dipole	偶极	ǒu jí
→ dipole moment	偶极矩	ǒu jí jǔ
↷ van der Waals' forces	范德华力	fàn dé huá lì
⚱ London dispersion forces	伦敦色散力	lún dūn sè sàn lì
⚡ instantaneous dipole	瞬时偶极	shùn shí ǒu jí
⚱ induced dipole	诱导偶极	yòu dǎo ǒu jí
⬡ permanent dipole	永久偶极	yǒng jiǔ ǒu jí
↷ hydrogen bonding	氢键	qīng jiàn
🌡 boiling point	沸点	fèi diǎn
⬡ surface tension	表面张力	biǎo miàn zhāng lì
⬡ dot-and-cross diagram	点叉图	diǎn chā tú