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CORRECTION

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Correction: Recent advances and perspectives for solar-driven water splitting using particulate photocatalysts

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Correction for 'Recent advances and perspectives for solar-driven water splitting using particulate photocatalysts' by Xiaoping Tao *et al.*, *Chem. Soc. Rev.*, 2022, **51**, 3561–3608, **https://doi.org/10.1039/d1cs01182k**.

The authors regret that there were some errors in the references in Tables 1 and 2 in the original article. The corrected Tables 1 and 2 are presented here, and the additional references which should have been included (ref. 299–317) are provided below.

Table 1 Representative particulate one-step overall water-splitting systems

Photocatalyst	Absorption range/nm	Cocatalyst	Efficiency	Ref.
Ultraviolet light				
TiO_2	<385 nm	Pt/RuO_2	QE: 30 ± 10% at 310 nm	299
$SrTiO_3$:Al	<390 nm	$Rh/Cr_2O_3/CoOOH$	AQE: 95.7% at 350 nm, 95.9% at 360 nm, 91.6% at 365 nm STH: 0.65%	179
$La_2Ti_2O_7$:Ba	<385 nm	NiO_x	QE: 35% (<360 nm)	300
$Sr_2Nb_2O_7$	<300 nm	Ni	QE: 23% (<300 nm)	301
$NaTaO_3$:La	<300 nm	NiO	AQE: 56% at 270 nm	84
Ga_2O_3:Zn	<280 nm	$Rh_{2-y}Cr_yO_3$	AQY: 71% at 254 nm	302
Polytriazine imides	<400 nm	Pt/Co	AQY: 7.9% at 365 nm, 6.2% at 380 nm, 0.26% at 405 nm	268
Visible light				
$(Zn_{0.12}Ga_{0.88})(N_{0.88}O_{0.12})$	<475 nm	$Rh_{2-y}Cr_yO_3$	AQE: 5.9% at 420–440 nm	264
GaN:Mg/InGaN:Mg	<475 nm	Rh/Cr_2O_3	AQE: 12.3% at 400–475 nm, STH: 1.8%	303
ZrO_2/TaON	<495 nm	$RuO_x/Cr_2O_3/IrO_2$	AQE: <0.1% at 420 nm	304
$LaMg_{1/3}Ta_{2/3}O_2N$	<600 nm	$Rh_{2-y}Cr_yO_3/TiO_2/SiO_2$	AQE: 0.18% at 440 ± 30 nm	243
Ta_3N_5	<590 nm	Rh/Cr_2O_3	AQE: 2.2% at 320 nm, 0.22% at 420 nm, 0.024% at 500 nm, STH: 0.014%	85
$BiYWO_6$	<470 nm	RuO_2	AQE: 0.17% at 420 nm	305
$BiVO_4$:In,Mo	<496 nm	RuO_2	AQE: 3.2% at 420–800 nm	306
$Y_2Ti_2O_5S_2$	<650 nm	$Rh/Cr_2O_3/IrO_2$	AQE: 0.36% at 420 nm, 0.23% at 500, 0.05% at 600 nm, STH: 0.007%	50
g-C_3N_4	<440 nm	Pt/CoO_x	AQE: 0.3% at 405 nm	267
g-C_3N_4(nanosheet)	<410 nm	Co_1-phosphide	QE: 3.6% at 420 nm, 2.2% at 500 nm and 0.35% at 580 nm	307
CDots-C_3N_4	<620 nm		AQE: 16% at 420 nm, STH: 2%	308

There was also a minor error in Fig. 3, where the vertical axis should have been labelled ''Potential/*vs.* NHE (pH = 0)''. The corrected Fig. 3 is also presented here.

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Table 2 Representative particulate Z-scheme overall water-splitting systems

HEP	OEP	Electron mediator	Efficiency	Ref.
Soluble electron mediator				
$Pt/SrTiO_3(Cr,Ta)$ (<700 nm)	PtO_x/WO_3 (<450 nm)	IO_3^-/I^-	AQE: 0.1% at 420 nm	271
$Pt/ZrO_2/TaON$ (<500 nm)	PtO_x/WO_3 (<600 nm)	IO_3^-/I^-	AQE: 6.3% at 420 nm	273
$Pt/MgTa_2O_{6-x}N_y/TaON$ (<570 nm)	PtO_x/WO_3 (<600 nm)	IO_3^-/I^-	AQE: 6.8% at 420 nm	274
$IrO_2/Sm_2Ti_2S_2O_5$ (<590 nm); $Pt/La_5Ti_2CuS_5O_7$ (<650 nm); $Rh/La_6Ti_2S_8O_5$ (<630 nm)	PtO_x/H-Cs-WO_3 (<450 nm)	I_3^-/I^-	STH: 0.003%	309
Dye-adsorbed $Pt/H_4Nb_6O_{17}$ (<700 nm)	$IrO_2/PtO_x/WO_3$ (<450 nm)	I_3^-/I^-	AQE: 0.05% at 480 nm	310
$Ru/SrTiO_3$:Rh (<520 nm)	$BiVO_4$ (<520 nm)	Fe^{3+}/Fe^{2+}	AQE: 4.2% at 420 nm, STH: 0.1%	311
$Ru/SrTiO_3$:Rh (<520 nm)	Bi_4NbO_8Cl (<498 nm)	Fe^{3+}/Fe^{2+}	AQE: 0.4% at 420 nm	76
$Rh_yCr_{2-y}O_3/ZrO_2/TaON$ (<530 nm)	Ir-$FeCoO_x/BiVO_4$ (<530 nm)	$[Fe(CN)_6]^{3-/4-}$	AQE: 12.3% at 420 ± 10 nm, STH: 0.6%	275 and 298
$Pt/SrTiO_3$:Rh (<520 nm)	$BiVO_4$ (<520 nm)	$[Co(bpy)_3]^{3+/2+}$ or $[Co(phen)_3]^{3+/2+}$	AQE: 2.1% at 420 nm	312
0.5 wt% $Ru/SrTiO_3$:Rh (<520 nm)	Photosystem II (400–520 and 600–700 nm)	$[Fe(CN)_6]^{3-/4-}$	STH: 0.012%	282 and 313
$Ru/SrTiO_3$:Rh (<520nm)	PtO_x/WO_3 (<450 nm)	$[SiW_{11}O_{39}Mn^{III}(H_2O)]^{5-}$/ $[SiW_{11}O_{39}Mn^{II}(H_2O)]^{6-}$	AQE: 0.24% at 400 nm (H_2 evolution) AQE: 0.36% at 400 nm (O_2 evolution)	314
Solid-state electron mediator				
$Ru/SrTiO_3$:Rh (<520 nm)	$BiVO_4$ (<520 nm)	None	AQE: 1.7% at 420 nm, STH: 0.12%	277
Pt/g-C_3N_4(nanosheet) (<450 nm)	$Co(OH)_2$/B doped g-C_3N_4(nanosheet) (<900 nm)	None	STH: 1.16%	276
$Ru/SrTiO_3$:La,Rh (<520 nm)	CoO_x/Ta_3N_5 (<600 nm)	Ir	AQE: 1.1% at 420 nm, STH: 0.037%	315
$Ru/SrTiO_3$:Rh (<520 nm)	$BiVO_4$ (<520 nm)	RGO	AQE: 1.03% at 420 nm	316
$ZnRh_2O_4$ (<1030 nm)	$Bi_4V_2O_{11}$ (<750 nm)	Ag	AQE: ~0.003% at 740 nm	317
$Pt/TiO_2/CdS/(ZnSe)_{0.5}(CuGa_{2.5}Se_{4.25})_{0.5}$ (<720 nm)	$BiVO_4$:Mo (<520 nm)	Au	AQE: 1.5% at 420 nm	281

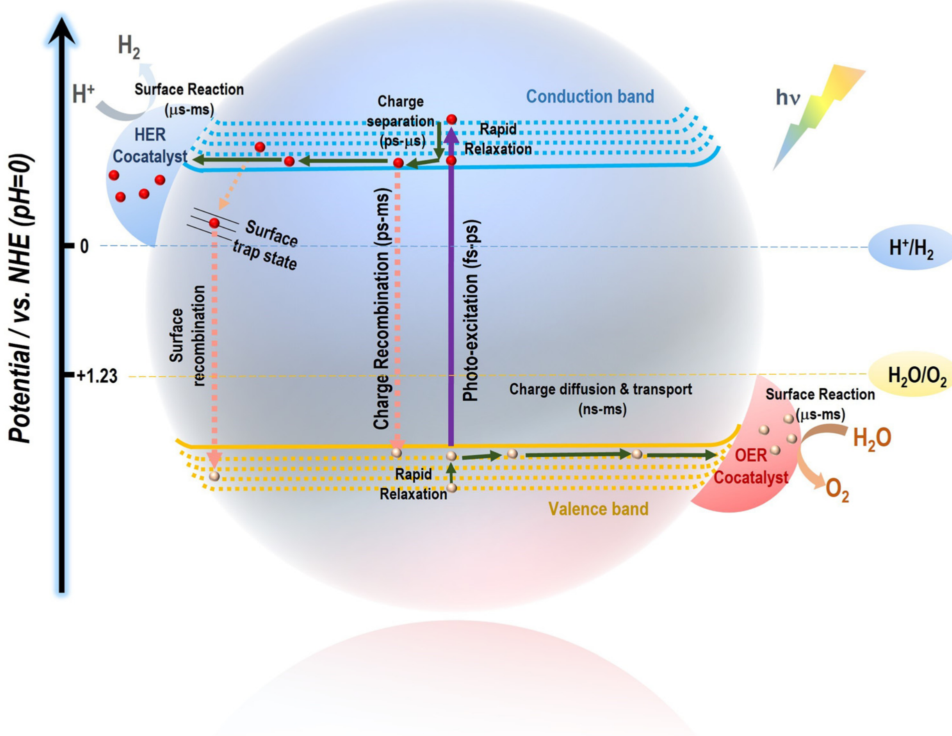

Fig. 3 Mechanism of photocatalytic water splitting on a semiconductor-based photocatalyst.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

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