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List of Figures

Figures	*Title*	*page*
1.1	Crystal structure of Hematite (α-Fe_2O_3)	1
1.2	Hematite pictograph	3
1.3	Hematite applications/utility	3
1.4	Photo electrochemical water splitting process and corresponding energy diagram	5
1.5	Illustration of a photoelectrochemical cell consisting of a semiconducting photoanode and platinum metal cathode and energy diagram	6
1.6	Transitions in semiconductors with a direct (left) and an indirect bandgap (right). The indirect optical transition requires assistance of phonon with energy ($\boldsymbol{\hbar\omega}$)	8
1.7	Maximum attainable $AM_{1.5\ global}$ photocurrent densities ($mAcm^{-2}$) for single junction PEC devices shown as a function of semiconductor bandgap	13
1.8	Surface fluorinated structure	20
2.1	Hydrothermal reaction methodology	28
2.2	Hydrothermal reaction vessel of 100 mL, 250 mL and 800 mL capacity	28
2.3	X-ray spectrometer principle	29
2.4	Essential features of X-ray	29
2.5	SEM Instrument	30
2.6	Interaction of electron and sample atom	30
2.7	Sample irradiation in XPS	32
2.8	Electron escaping from surface	32
2.9	ICP OES Torch, Spray Chamber and Nebulizer	33
2.10	Excitation and emission diagram (Excitation and emission diagram showing energy transitions. I & II is excitation, iii is ionisation, iv is ionisation/excitation, v is ion emission and vi is atom emission)	34
2.11	I-V measurement under 100 W/m^2 solar simulator radiation	35
3.1	pH changes before and after reaction for increasing concentration of F-TEDA	39
3.2	F-19 NMR spectra of the reaction medium, (a) before and (b) after reaction (from supernatant)	39
3.3	(a-e) FESEM images and corresponding (f-j) TEM images of pristine and F-Fe2O3 with 10%, 20%, 30% and 40% of F-TEDA respectively. (k,l) SAED pattern at low and high magnification and (m-o) EDS imaging of F-Fe2O3 with 20% F-TEDA	40
3.4	(a) XRD patterns. (b) Variation in intensity of {110/104} peak ratio with respect to weight% of F-TEDA. Inset shows the packing of atoms in both (110) and (104) crystallographic planes	41
3.5	(a) XRD patterns of fluorinated hematite with respect to weight% (50%, 60% and 70%) of F-TEDA	42
3.6	XPS full range survey scan of pristine α-Fe_2O_3 and F- α-Fe_2O_3	42
3.7	X-ray photoelectron spectra (XPS) of (a) Fe2p (b) O1s and (c) F1s of pristine α-Fe2O3 and F-Fe2O3. Note that the peak values are calibrated with reference to carbon at 284.8 eV	43
3.8	Raman spectra (XPS) of pristine α-Fe2O3 and F-Fe2O3	45
3.9	UV-Vis diffuse reflectance spectra	46
3.10	(a) Tauc plots of pristine and F-Fe_2O_3 (b) Variation in bandgap values of α-Fe_2O_3 upon fluorination	46
3.11	(a) Working electrode of pristine and F-Fe_2O_3 (with increasing F-TEDA concentration) and (b) Three electrode system (c) photo-electrochemical measurement setup	47
3.12	(a) J-V characteristics of α-Fe_2O_3 films in light (100 W/m2). (b) Chronoamperometry measurements performed at 1.6 V versus RHE	48
3.13	Impact of fluorination on electron hole recombination and better charge transport at surface	48
3.14	(a) I-t curve of pristine and fluorinated Fe_2O_3 films on exposure to light for 5 s. (b) The photocurrent response with respect to pristine Fe_2O_3 films	49
3.15	(a) Amperometric measurements at 1.6 V versus RHE of different thicknesses (b) Current density of fluorinated α-Fe_2O_3 at different calcination temperature prepared by screen printing (F-TEDA 10% wt.)	50
3.16	(a) Mott–Schottky plots of pristine Fe_2O_3 and F-Fe_2O_3. The intercept of the linear extrapolation with the x-axis (potential) marks the flat band potential as ($U_{fb} + \frac{K_bT}{e}$). (b)	50

	Band structure of the synthesized Fe_2O_3 with different quantity of F-TEDA. Conduction band (red bars), the approximate position of the mid-bandgap energy level (green line), and the valence band (black bars)	
3.17	Nyquist plot of pristine and F- F-Fe_2O_3 (10-40% F-TEDA) of electrodes in photo-electrochemical cell in 3- electrode geometry	51
3.18	Schematic representation of dye sensitized solar cells fabricated using α-Fe_2O_3/TiO_2 as photoanode	52
3.19	J-V characteristics of (a) pristine α-Fe2O3 and (b) 30% F-Fe2O3 photo anode mixed in different weight ratios with TiO2 (P25) as photo anode. (c) Photo-conversion efficiency (d) Nyquist plot of the optimized composition (10% of Fe2O3 in TiO2) for pristine and F-Fe2O3respectively. Inset shows an equivalent circuit diagram	53
4.1	Structure of fluorinating agents used for in-situ fluorination of α-Fe_2O_3	57
4.2	X-ray pattern of α- Fe_2O_3 and F- α- Fe_2O_3 synthesized using 20%wt. of fluorinating agents and * represents impurity peak	58
4.3	Intensity ratio of (110) and (104) plane in α- Fe_2O_3 and F- α- Fe_2O_3 synthesized with different fluorinating agents. Percentage represents the wt. % quantity of fluorinating agents used with respect to Fe precursor	58
4.4	SEM images of (a) pristine α-Fe_2O_3, (b) F-TEDA, (c) $TBABF_4$, (d) NaF, (e) NH_4F, and (f) HF mediated F-α-Fe_2O_3 synthesis (20wt. % were used with respect to Fe precursor)	59
4.5	Magnetic hysteresis loops (M-H curves) of pristine α-Fe_2O_3, F-TEDA, $TBABF_4$, NaF, NH_4F, and HF mediated F-α-Fe_2O_3 (20wt. % of fluorinating agent were used with respect to Fe precursor)	60
4.6	M-H curve of α-Fe_2O_3 and F- α-Fe_2O_3 (fluorinated with different wt. % F-TEDA)	61
4.7	Fluorine at.% in F- α-Fe_2O_3 mediated by different wt.% of F-TEDA in relation with H_c and M_s	62
4.8	Zero-field cooled and field cooled magnetic measurements at 500 O_e applied filed for (a) Pristine Fe_2O_3 (b) F-TEDA (c) $TBABF_4$ (d) NaF (e) NH_4F and (f) HF	63
4.9	Temperature dependent magnetization of α- Fe_2O_3 and F- α-Fe_2O_3 (at 500 O_e) synthesized at different wt. % of F-TEDA	64
4.10	Real and imaginary permittivity (a), permeability (b), dielectric loss (c) and magnetic loss (d) for α-Fe_2O_3 and F- α-Fe_2O_3 samples over 6–18 GHz	65
4.11	Simulated absorption characteristics for fluorinated Fe_2O_3 at different thicknesses	66
4.12	Schematics of fluorinated hematite being used for microwave absorption material	67
5.1	Uranium contamination and toxicity	69
5.2	FTIR spectra of F-α-Fe_2O_3 and Uranium adsorbed F-α-Fe_2O_3	71
5.3	X-ray diffraction patterns of F-α-Fe_2O_3 and U(VI)-F-α-Fe_2O_3	72
5.4	XPS spectra of spectra of F-α-Fe_2O_3 before and after U(VI) adsorption, survey XPS	72
5.5	XPS spectra of spectra of F-α-Fe_2O_3 before and after U(VI) adsorption (a) high resolution of U 4f, and (b) high resolution of O 1s. The peaks are referenced to the C 1s line of adventitious hydrocarbon at 284.8 eV.	73
5.6	(a) FESEM image and (b) EDX profile of F-α-Fe_2O_3 - U(VI)	73
5.7	Nitrogen adsorption - desorption isotherms of (a) pristine α-Fe_2O_3 (b) 10% F-TEDA- F-α-Fe_2O_3 (c) 20% F-TEDA- F-α-Fe_2O_3 (d) 30% F-TEDA- F-α-Fe_2O_3 (e) 40% F-TEDA- F-α-Fe_2O_3	74
5.8	Calibration of ICP OES for uranium detection	75
5.9	The effect of initial solution pH on U(VI) removal at 50 ppm concentration; volume, 50 mL; adsorbent dose, 25 mg; pH value, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12; contact time, 180 min; temperature, 25 °C; rotating speed, 140 rpm	76
5.10	The effect of fluorination on U(VI) removal at 50 ppm concentration; volume, 50 mL; adsorbent dose, 25 mg; pH value 8, contact time, 180 min; temperature, 25 °C; rotating speed, 140 rpm	77
5.11	Schematic of fluoride assisted uranium adsorption at F-α-Fe_2O_3 surface	77
5.12	Effect of initial uranium concentration on adsorption capacity	78
5.13	Adsorbed amount of U(VI) at different time, volume 50 mL, 50 ppm adsorbent	78
5.14	Pseudo-second-order kinetic plot of U(VI) adsorption	79
5.15	(a) Langmuir and (b) Freundlich adsorption of U(VI) onto F-α-Fe_2O_3	80

List of Tables

Tables	Title	page
1.1	General properties of Fe_2O_3 and compared with other the iron oxides	2
1.2	Properties and applications studied of bulk and nano hematite	3
1.3	Literature survey of solar water splitting materials	9
1.4	Literature survey of hematite as photo anode material	13
1.5	Uranium removal/extraction methodologies	18
1.6	Literature survey of adsorbents used for uranium removal from water	19
1.7	Fluorinated material and their applications	21
1.8	Fluorinating agents	23
2.1	Analytical grade chemical, formula and supplier	25
2.2	Summary of chemical reactions	26
3.1	Calculation of crystallite size (nm) of pristine and F-Fe_2O_3using Scherrer equation with respect to (104) and (110) planes	41
3.2	Elemental quantification of Fe, O and F in pristine and F-Fe_2O_3. The peak values are calibrated with reference to adventitious carbon at 284.8 eV	43
3.3	X-ray photoelectron spectra (XPS) literature reference of Fe 2p, O 1s and F 1s peaks	44
3.4	Charge carrier densities calculated from Mott Schottky plot	51
3.5	Fitting parameters from Nyquist plot of pristine and F-Fe_2O_3 films	51
3.6	Photovoltaic performance parameters of the DSSC based on α-Fe_2O_3/TiO_2photoanode	52
3.7	Parameters obtained by fitting equivalent circuit diagram using Nyquist plot for DSSC	54
4.1	List of synthesized fluorinated α-Fe_2O_3 samples	57
4.2	Crystallite size of α-Fe_2O_3 and fluorinated α-Fe_2O_3 samples calculated suing (110) and (104) planes	59
4.3	M-H data for α-Fe_2O_3 synthesized with different fluorinating agents using 20 wt. %	61
4.4	M-H data for α-Fe_2O_3 and F- α-Fe_2O_3 synthesized with different wt. % of F-TEDA	62
5.1	Surface area and pore size of α-Fe_2O_3 and F-α-Fe_2O_3	74
5.2	Amount of Fluorine versus uranium removal efficiency	77
5.3	Kinetic parameters of U(VI) adsorbed onto F-α-Fe_2O_3	80
5.4	Langmuir, Freundlich isotherm model constants and correlation coefficients	81
5.5	Literature survey of uranium removal using hematite/ Hematite composite	82

List of Symbols

Symbol	*Description*
Å	Angstrom
α	Alpha
γ	Gamma
cm^{-1}	Centimeter Inverse One
°	Degree
I	Intensity
m^2/g	Meter Square Per Gram
μ	Micro
μm	Micrometer
nm	Nanometer
Ω	Omega
%	Percentage
θ	Theta
λ	Wavelength
ν	Frequency

List of Abbreviations

Abbreviation	*Full Form*
a.u.	Arbitrary Units
BET	Brunauer-Emmett-Teller
BG	Bandgap
CB	Conduction Band
EDX	Energy Dispersive X-ray Spectroscopy
EIS	Electrochemical Impedance Spectroscopy
Fe	Iron
FESEM	Field Emission Scanning Electron Microscopy
F-TEDA	Chloromethyl-4-fluoro-1,4-diazoniabicyclo[2.2.2]octane bis (tetrafluoroborate)
FTO	Fluorine Doped Tin Oxide
HER	Hydrogen Evolution Reaction
HRTEM	High Resolution Transmission Electron Microscopy
HT	Hydrothermal
ICSD	Inorganic Crystal Structure Database
JCPDS	Joint Commission on Powder Diffraction sheet
KCl	Potassium Chloride
O	Oxygen
OER	Oxygen Evolution Reaction
PEC	Photoelectrochemical
PPM	Parts Per Million
RAM	Radar Absorbing Material
RHE	Reference Hydrogen Electrode
SAED	Selected Area Electron Diffraction
SEM	Scanning Electronic Microscopy
STH	Solar to Hydrogen
TEM	Transmission Electronic Microscopy
TiO_2	Titanium Oxide
U	Uranium
VB	Valance Band
XPS	X-ray Photoelectron Spectroscopy
XRD	X-Ray Diffraction