Supplementary information –

Application of large datasets to assess trends in the stability of perovskite photovoltaics through machine learning.

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SI-1 Values used for data analysis

Listed below are the factors used in the datasets. In addition to the factors listed below, numerical values of cell area and optical bandgap was added and a binary assertion of Module (as opposed to cell) and UV filter was applied (TRUE or FALSE)

Substrate	Front electrode	Back electrode	Architecture	Testing condition
PEN	Ag	Ag	Back contacted	IEC 61215
SLG	Ag-grid	Ag	nip	IEC 61646
PAA-PEG	Ag-np	AgAl	nip-mp	Indoor light
PDMS	AZO	Ag-nw	nip-mp-carbon	ISOS-D-1
PEN	Cu-grid	Al	pin	ISOS-D-1I
PES	FTO	Al		ISOS-D-2

PET	Graphene	Au	ISOS-D-2I
PI	ITO	Au	ISOS-D-3
Polyester-satin textile	ITO	AZO-c	ISOS-D-3
SLG	IZO	Carbon	ISOS-L-1
Ti	Ni	Carbon	ISOS-L-1
Transparent wood	PEDOT:PSS	Carbon-nt	ISOS-L-1I
	Ti	CSCNT@SnO2	ISOS-L-2
	Au	Cu	ISOS-L-2I
	Carbon-nt	Cu	ISOS-L-3
	FTO	FTO	ISOS-LC-1
	Graphene	Graphene	ISOS-L-C1I
	ITO	Graphene	ISOS-O-1
	Ti	ITO	ISOS-T-1
		ITO	ISOS-V-1
		IZO	ISOS-V-1I
		Metal	UV-stability
		MWCNTs	
		Ni	
		PEDOT:PSS	
		Pt	
		Sb	
		Al	
		Carbon	
		Carbon-nt	
		Cu	
		Graphene	
		Graphite	
		Mo	
		MWCNTs	

Light source	Bias condition	Atmosphere
Sun	Constant potential	Air
Dark	MPPT	Air. Desiccator
Fluorescent lamp	Open circuit	Ambient
Halogen	Passive resistance	Ar
Indoor light	Short circuit	Dry air
LED		Glovebox
Light		N2
Mercury		N2; O2
Metal halide		Near-space
Natural sunlight		Unknown
Solar simulator		Vacuum
Sulfur plasma		
Tungsten		
UV lamp		
White LED		
Xenon		

TL1	TL2	TL3
2F-SAM	1,2-ethanedithiol	1,2 ethanedithio
2PACz	3-(1-pyridinio)-1-propanesulfonate	5,6,11,12-Tetraphenylnaphthacene
4-methoxythiophenol	AgInS2-QDs; TiO2-c	Al2O3-c
5,6,11,12-Tetraphenylnaphthacene	Ag-np	Al2O3-c
Ag-np	Al2O3-c	Al2O3-mp
Ag-nw	Al2O3-mp	Al2O3-np
Al-np	APTES-SAM	Aminocaproic acid
Aniline; rGO	Au-nw	Aminocaproic acid; Caproic acid

Au-np

AZO-np

BaCoF4

BCP

BDT-POZ

BDT-PTZ

BenMeIM-Cl

Bphen

BTF1

BV-FNPD

C60

C60-SAM

Carbon-np

CdS

CdSe

CeOx

CF-Sp-BTh

Cobalt–porphyrin

CoCuO

CoOx

CPTA

CrOx

Cu3PS4-np

CuAlO2

CuCo2O4

CuCrO2

CuI

CuInS2

CuOx

CuPc

CuSCN

AZO-mp

B2Cat2

Ba(La)SnO3

BBA

bis-PCBM; DMC

BrBA

BZnTPP

C60

C60

C60-NH2

C60-SAM

C9

Carbon-QDs

Carbon-QDs

CDIN

CdS

C-PCBSD

CPTA

CsCO3

CuGaO2

CuGaO2-c

CuGaO2-mp

CuInS2-QDs

CuZnS

D35

Dompamin-SAM

DPC60

DTPA

EMIM-PF6

EPA

F4-TCNQ

Au@SiO2-np

Au-np

BaTiO3

beta-Alanine-SAM

BSO-mp

C60

C60-SAM

Carbon-QDs

Carpoic acid

CaTiO3-c

CBA-SAM

CdS

CsI

CuSCN

Dex-CB-MA

ETPM

Graphen Oxide

Graphene oxide

HOOC-Ph-SH

Li-GO

MBA-SAM

MoO3

MoS2

MPTS-SAM

N719 dye

NaYF2@SiO2-np

NBA-SAM

NH4I

NiO-c

NiO-np

PbSe

CuS-np

CzPAF-TPA

DBFMT

DBTMT

DFTAB

DMZ

DNA-CTMA

F6-TCNNQ

FB-OMeTPA

Fe2O3

Fe2O3-mp

FT-OMeTPA

GO-nanoribbons

Graphene

Graphene oxide

Graphene; NDI; SnO2-np

Graphene-QDs

HfO2

HTM-2 (bifluorenylidene-based)

IDIC

In2O3

In2O3-c

LiCoO2

LiMgNiO-c

LiNiO-c

MeO-2PACz

Mg0.1Zn0.9O-np

m-MTDATA

MoO3

MoOx

Graphene

Graphene; Al2O3-mp

Graphydine-QDs

Heparin-Na

Hexamethylenetetramine

ICBA

ImAcHcl

KCl

LiF

MCA

MgO

MgO-EA

MoS2

MSAPBS

NAMF-Br

NAMF-Cl

NAMF-H

NiO-c

NiO-mp

NPC60 OH

OEABS

OTES:APTES-SAM

PASP

PbPc

PCBA

PCBB-2CN-2C8

PCBM-60

PCBM-60; PMMA

PCBSD:GD

PEDOT:PSS

PbTiO3

PCBM-60

PCBM-60; PMMA

PCBM-60; Poly(N-vinylcarbazole)

PEDOT:PSS

PEI

PFN

SbI3

SiO2-mp

SnO2

SnO2-c

SnO2-np

TiN

TiO2-c

TiO2-mp

TiO2-np

Trimethylamine oxide

ZrO2-mp

PCBM-60

PFN

(blank)

MoS2

MoS2

MPA-BTTI

MSAPBS

MTDATA

N,N-di-p-methylthiophenylamine

Nafion; PEDOT:PSS

Nb2O5

NbOx

NDI-P

NiCo2O4

NiMgLiO

NiMgLiO-c

NiMgO

NiO

NiO-c

NiO-mp

NiO-nanowalls

NiO-np

NO-Graphene-QDs

NPB

NPB; PTAA

nTi-MOF

Oxo-Graphene

P3Ct

P3CT-K

P3CT-N

P3CT-Na

P3HT

PANI

PEI

PFN

PFN-Br

PFN-P1

PFN-P2

PMMA

PN4N

PolyTPD

PPDI-F3N

PS

PSS-Na

PTAA

PTFTS

rGO; Zn2SnO4-fiber

Rubrene

SAED

Si-nw

SnO2

SnO2@TiO2-np

SnO2-c

SnO2-mp

SnO2-nanosheets

SnO2-np

Spiro-TBB

SrGO

SrTiO3-mp

SWCNTs; TiO2-mp

SY1

SY2

SY3

PASQ-IDT

PB2T-O

pBDT-BODIPY

PBT

PbZrTiO3

PCBM-60

PCP-Na

PEDOT:LS

PEDOT:PSS

PEDOT:PSS; PEG

PEDOT:PSS; PEI

PEI

PEIE

PFB

PFN

PFO

PhNa-1T

poly(1,4-phenylenevinylene)

PolyTPD

Porphyrin

p-PFP-O

PTAA

PTB7

PTCA

PTEG-1

PTPD

PVK

PyCEE

rGO

r-GO-HBS

SY4

TaTm

Ti

TiO2; CoCr-mp

TiO2-c

TiO2-mp

TiO2-mp; YVO4:Eu:Bi-np

TiO2-nanofibers

TiO2-nanoflowers

TiO2-np

TiO2-nw

TiS2

TPI-6MEO

TPTPA

V2O5

WOx

WPF-6-oxy-F

ZIF-8

Zn2SnO4-fiber

Zn2SnO4-mp

ZnO-mp

ZnO-nanodisks

ZnO-nanofibers

ZnO-nanowells

ZnO-np

ZnO-nw

ZnOS

ZnPtriazine(gly)2

ZnSO4-mp

ZnTiO3-mp

Si-OMeTPA
SnO2
SnO2-c
SnO2-nanosheets
SnO2-np
SnO2-np
SnO2-QDs
SnS2
Spiro-MeOTAD
Spiro-TBB
SrGeO3
SrTiO3
SrTiO3-c
SY1
SY2
SY3
SY4
TAE
TAPC
TaTm
TB(MA)
TCl-PDI
TFB
TFM
Ti3C2
Ti3C2Tx
TiO2-c
TiO2-macroporous
TiO2-mp
TiO2-np
TiO2-nw
TiS2
TPA-BP-OXD
TPE-S
TP-FTzF-TP
TS-CuPc
TTA
V1036
VB-MeO-FDPA
VOx
WOx
WS2
X1
XY1
ZrO2-mp
ZTO
CuPc
PEDOT:PSS
PEDOT:PSS
SnO2-np
ZnO

Zn2SnO4
ZnO
ZnO
ZnO-np
ZnSO
ZTO
SnO2-c
TPA-PT-C6

TL4

(4AMP)I2	CuInS2@ZnS-QDs	MoO2-np	PTTI-2
(CH3)3SPbI3	CuInS2-QDs	MoO3	PTZ-TPA
(DTYM-NDI-DTYA)2	CuInSe2-QDs	MoS2	PVAc
(OctPhO)8CuPc	CuMe32c	MoS2-QDs	PVP
(OctPhO)8ZnPc	CuMePc	MoS2-QDs; rGO-flakes	Py-C
[BMMIm]Cl	CuO2	mp-SFX-2PA	Py-OMe
[BMPA-BTD]3-TPA	CuP		PZn-2FTPA
[BMPA-EDOT]3-TPA	CuPc	N2200	Q10
[Fe(bpyPY4)](OTf)2.5	CuPcNO2-OPh		RCP
18-crown-6 ether	CuPc-OBu	NaYF4:Yb:Er-np	RCP-BTT
1-adamantylamine	CuPc-OTPAtBu	Nb2O5	Red Phosphorous-QDs
1-adamantylamine hydrochloride	CuPrPc	N-CuMe2Pc	rGO
	CuPs-TIPS	N-CuMe2Pc; P3HT	rGO-4FPH
	CuS	NDI3HU-DTYM2	rGO-flakes
2,6-Py	CuSCN	NDI-ID	S,N-Heteroacene 1
2,7 BCz-OMeTAD	CuSeCN	NDI-ID(RR)	S,N-Heteroacene 2
2,7-triphenylamine-carbazole	CW4	NDI-ID(RS)	S,Si-heteropentacene
2-acetylpyridine		NDI-PM	S12
2-aminoterephthalic acid	Cytop	NDP-V	S14
2FBTA-2	Cz-OMeTAD	NH2-POSS	S5
2-HI-PVK	CzPAF-SBF	NiCo2O4-np	SAF-5
2H-MoS2	CZ-STA; CZ-TA	NiO	SAF-OMe
2mF-X59	CZ-TA	NiO-c	Selenium
2-MP	CZTPA-1	NiO-mp	SFXDAnCBZ
2PDI-0S	CZTPA-2	NiO-np	SGT-405
2TPA-2-DP	DAHI	NiPc	SGT-410
2TPA-4-DP	DAI	NMPFP	SGT-411
3,6 BCz-OMeTAD	DBC-OMeDPA	NP-SC6-TiOPc	SiPc-Py-2
3,6-cbz-EDOT	D-C60	OAI	Si-QDs
3,6-triphenylamine-carbazole	DCZ-OMeTAD	OCA	SM
3-acetylpyridine	DCZ-OMeTPA	ODA-FeS2-np	SM09

3-Butylthiophene	DDOF	OIPC-I	SnO2-c
3-Dodecylthiophene	Decaphenylcyclopentasilane	Oleic-acid	SnS
3-Ethylthiophene	DEPT-SC	Ome-DPA-CuPc	SnS-np; ZnS-np
3-Hexylthiophene	DERDTS-TBDT	OMe-TATPyr	SP-01
3-hydroxypyridine	DFBT(DTS-FBTTh2)2	OMeTPA-BDT	SP-02
3-Methylthiophene	DIPO-Ph4	Ome-TPA-CuPc	SP-12
	DIQ-C12	OMeTPA-DPP	Spiro-MeOTAD
	dly-1	OMeTPA-FA	Spiro-MeOTAD:P3HT
	dly-2	OMeTPA-TPA	Spiro-MeTAD
	DM	OTPA-ZnPc	Spiro-OBuTAD
	DMEC-60	P(BDTT-SePPD)	Spiro-OEtTAD
4-acetylpyridine	DMEC-70	P(BDTT-tPPD)	Spiro-OiPrTAD
4-chlorothiophenol	DORDTS–TFBT	P(BDTT-ttPPD)	Spiro-OMeOTAD
4-DMABA	DPA-ANT-DPA	P(NDI2DT-TTCN)	Spiro-OprTAD
4-HI-PVK	DPA-QA-DPA	P(NDI2OD-T2)	SrCl2
	DPPS	P1	
A101	DR3T	P1Z1	SWCNTs
A102	DR3TBDTT	P2	TAPC
ACE-ANT-ACE	DR3TBDTT; PDMS	P3	TaTm
ACE-QA-ACE	DTB	P3HT	TBC
ACR-TPA	DTBT	P3HT	TBC-1
ADAHCl	DTS	P3HT; SWCNTs	TBC-2
ADAHI	EDOT-OMeTPA	P3HT-MoS2	TCPBr
Adamantane	EH44	P3TAA-co-P3HT	TCPI
a-DMEC70	EHCz-2EtCz	P4	TCP-OC8
Al2O3	EHCz-3EtCz	P6	TCP-OH
Al2O3-c	EHCz-MeFl	PANI	TDT-OMeTAD
Alkoxy-PTEG	EtheneDTPA	PB(NAP-Th)TBT	TEACl
Aminothiazolium iodide	EtheneTTPA	PBDB-T	TET
AQ310	EVA	PBDT(2F)T	TFAP
AS37	F1	PBDTT	TFB
asy-PBTBDT	F16CuPc	PBDTTT-CT	TFDIB
AZ1	F2	PbPc	Theophylline
AZ2	F23	PbS-QDs	Thiophene
AZO-mp	F3	PBT1-C	Th-PDI
B1	F4-TCNQ	pBTT	Ti
B186	FA-CN	PBTTT-14	TiO2-c
B2	FA-PDI2	PC61BEH	TiO2-mp
B3	FBA2	PCA-1	TiO2-np
BAI	FBA3	PCBB-OEG; PCBM-60	TiS2-np
BCP	FDT	PCBM-60	Titanylphthalocyanine
BCP; PCBM-60	Fe3O4-np	PCBM-60; F8TBT	TMPA-Cl
BDT0FMeDPA	FEH	PCBM-60; Graphene	TMTA
BDT-4MeOTPA	F-graphene; P3HT	PCBM-60; ICBA	TOPO
BDT-C1	FNCA	PCBM-60; PCDTBT	TP1
BDTS-2DPP	FTA2	PCBM-60; Sb-Carbon-	TPA-3CN

		nw	
BEDN	FU7	PCBM-60; Zn0.8Cd0.2S-np	TPA-ANT-TPA
Benzylamine	Fullerene-2a	PCBM-60; ZnO-np	TPA-BPFN-TPA
BF002	Fullerene-2b	PCBM-70	TPA-BP-TPA
BF003	Fullerene-2c	PCBM-70; PTB7-Th	TPA-BPV-TPA
Bi2Te3	Fulleropyrrolidinium Iodide	PCDTBT	TPA-CN
Black phosphorous	G2	PCDTBT1	TPA-Pc
BMIMBF4	Graphene	PCDTBTB	TPA-QA-TPA
BP	Graphene oxide	PCPD2FBT:BCF	TPA-TPM
Bp-OMe	Graphene oxide; NiO-c	PCPDTBT	TPB(2-MeOTAD)
BT	Graphene; P3HT	PCTDI	TPB-2-MOTPA
BTBDT	Graphene; TSHBC	PD-10-DTTE-7	TPD
BT-BTH	Graphene-QDs	PDBT-co-TT	TPD-4EtCz
BTDTP	Graphitic carbon nitride	PDCBT	TPD-4MeOTPA
BTF1	H:MoO3	PDIN	TPD-4MeTPA
BTPA-6	H101	PDI-T	TPDI
BTPA-TCNE	H111	PDI-V	TPE-DPP16
BTTI-C6	H112	PDMS	TPE-DPP4
C101	H-2,5	PDPP3T	TPE-ISO4
C102	H-3,4	PDPPDBTE	TPE-PDI4
C12H10B2O4	H6Bu-ZnPc	p-DTS(FBTTh2)2	TPE-TPA-8A
C13-FAS	HATNASOC7-Cs	PEA2PBI4	TPE-W1
C5-NCMA	H-Bi	PEAI	TPE-W2
C60		PEDOT	TPE-W4
C60; C70	HL-1	PEDOT:PSS	TPFPB
C60; PCBM-60	HL-2	PEH-3	TQ1
C60; PDI	HOFP	PEH-8	TQ2
C60-BPy	HS-Ph-CN	PEH-9	Triazine-Ph-OMeTPA
C60-MPy	HTM		Triazine-Th-OMeTPA
C60-SAM	HTM1	Pentafluorobenzenethiol	TRUX-E-T
Carbon Black	HTM-1	PEO	TSHBC
Carbon black; Graphite	HTM-2	Perovskite	TTC
Carbon;	HZ1	Perovskite-QD	TTE-1
Carbon; MAI	HZ2	PF8-TAA	TTE-2
Carbon-epoxy	H-Z2	PFB	TTF1
Carbon-nt	HZ3	PffBT4T-2OD	TTPA-OMeTPA
Carbon-nt; P3HT	ICBA	PFPDI	V1000
Carbon-QDs	IDF-SFXPh	PhCz-4MeOTPA	V1004
CAS	IDIC	Phosphor-QDs	V1012
CdI2	IDT1	PHPT-py	V1013
CdSe-QDs; PCBM-60	IDT2	Ph-TPA-2A	V1021
CdS-np	IDT6CN-4F	Ph-TPA-4A	V1091
CdZnSe@ZnSe-QDs	IDT6CN-TM	Ph-TPA-6A	V1160
CdZnSeS-QDs	IDTC4-TPA	PIF8-TAA	V1207
CeOx	IDTC6-TPA	PMMA	V1209
CeOx-np	IDT-TPA	PN	V1221

CGS
Choline chloride
CIGGSe-np
CIGS-np
Co3O4
Co-Porphyrin
Co-porphyrins
COPV1
COPV4
COPV7
COTT-1
CPTA-E
Crosslinked TCTA-BVP
CsBiBr3-QDs
CSCNT@Al2O3-c
CsCuBr3-QDs
Cs-oleate
CsPbBr3-np
CsPbI3-np
CsSnBr3-QDs
CsSnBrI2-QDs
CsSnI3-QDs
CT1
CT2
CTAB
Cu:NiO-np
Cu2O
Cu3SbS4-np
CuCrO2
CuCrO2-np
CuEtPc
CuFeO2-np
CuGaO2
CuGaO2-np
CuI
CuIn1.5Se3-QDs
CuInS
IDTT-TPA
IEICO; PBDTTT-E-T
IEICO-4F
Imidazolium iodide
In2O3-c
IPFB
IT-4F
IT-4F; PBDB-T-SF
IT-4H
IT-4M
ITCP-M
ITCPTC
ITCPTC-Se
ITCPTC-Th
ITIC
ITIC-Th
J1
J2
J61-ITIC
JK-216D
JY5
JY7
KR321
LiF
M101
M102
M103
M104
M3
M3; PCBM-60
M4
M4; PCBM-60
mDPA-DBTP
Me4NBr
ME6Bu-ZnPc
MEH-PPV
Mix-DMEC70
MnS
Mo(tfd-COCF3)3
PNDI-2T
PN-F25
PN-F50
Poly(ethylene oxide)
Poly(TA)
Polyimid
Poly-N-vinylcarbazole
Polystyrene
PolyTPD
PO-Spiro
POSS-NH2
POSS-SH
POZ10
POZ6-2
POZ9
PPDI
PPDT2FBT
PPEA
pPh-2MODPACz
PPy
PPyra-ACD
PPyra-TXA
PPyra-XA
PS
P-SC6-TiOPc
PSQ2
PT3HT
PTA
PTAA
PTAA; Spiro-MeOTAD
PTB7
PTCDA
PT-DC
PTQ10
PTTI-1
V1225
V873
V885
V886
V911
V950
WO3
WT3
X2
X51
X55
X61
X62
XPP
XY1
Y4
YC-1
YC-2
YC-3
YD2-o-C8
Yih-2
YK1
YK2
YKP03
YN1
YN2
YN3
YT1
YT2
YT3
Z1
Z1011
Z1012
Z25
Z26
Z28
Z29
Z30
Z35
ZnChl
Zn-ChL
ZnO
ZnO-c
ZnO-mp
ZnO-np
ZnP
ZnPc

ZnPcNO2-OPh
ZnPy
Zr(acac)4
ZrO2-c
MAI
NiO
NiS
WO2-np
WO3-np

TL5

[BMIM]BF4
3-(1-pyridinio)-1-propanesulfonate
Al2O3
Al2O3-c
Al2O3-mp
Al2O3-np
AZO
AZO-np
B4PyMPM
BCB
BCP
bis-C60
bis-C70
Bphen
C3-CBL
C60
C60
C60; PCBM-60
C60; Phlm
C60-N
C60-SAM

TL6

AZO
BCP
Bi
Bphen
C60
C60-SAM
Ca
COTT-2
Cr
LiF
Mg
MoO3
MoO3
PEI
PEIE
PO-T2T
Rhodamine 101
SnO2-c
SnO2-c
Spiro-MeOTAD
TaTm

TL7

LiF
MoO3
SnO2-c
TPBi
ZnSnO2-c

Ca

CANP

Carbon-nt; PEI

Carbon-QDs

CD

CeOx

CeOx-np

Cr

Cr2O3

CsCO3

Cu2O

CuBuPc

CuPc

CuSCN

DM

DTAB

DTPC13-ThTPA

DTP-C6Th

DTPC8-ThDTPA

DTPC8-ThTPA

EFGnPs-F

F-60; bis-C60

F6-TCNNQ; TaTm

F-C60

Fe2O3

F-R-COOK

FrGO

Graphene

Graphene oxide

HDAC

LiF

Mg

MnO3

MnOx

Mo

MoO3

MoO4

MoOx

MUTAB

NiO-c

NiO-mp

NiO-np

p-(F)-PO-TAZ

P3HT

P3HT; PMMA

PCBC

TPBi

YC-1

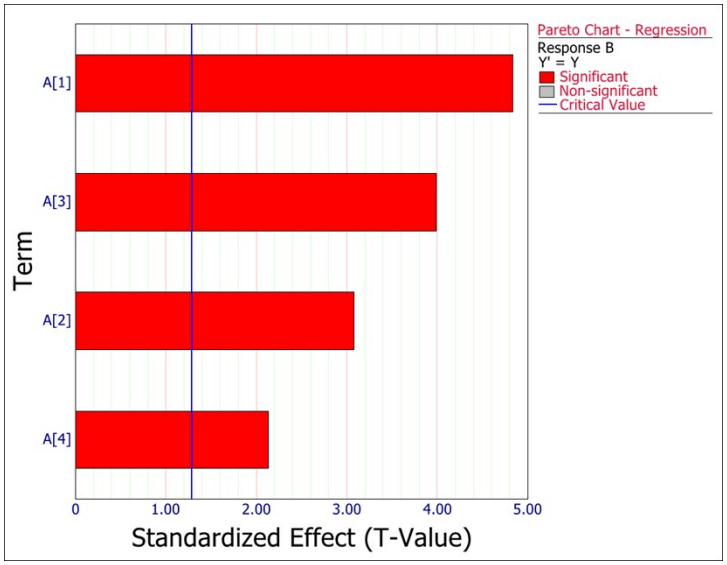
ZTO

PCBDAN
PCBDANI
PCBM-60
PCBM-60; Graphene
PCBM-60; PMMA
PDI-Br
PDIN
PDINO
PDPP4T
PEAI
PEDOT:PSS
PEI
PEIE
PEOz
PFN
PFN; ZnO-np
PFN-Br
PFN-P2
Phen-NaDPO
PMMA
PN4N
PN6
Polyethylimine
PO-T2T
PPDIN6
PTAA
PTCDA
PTZ-1
PTZ-2
rGO
Rhodamin 101
Rhodamine 101
Rubrene
s-Bphen
SnO2
SnO2-c
SnO2-np
SnS
SP-12
Spiro-MeOTAD
SWCNTs
SWCNTs
Ta:Wox-np
TaTm
TBAI
Ti
TiO2
TiO2 -np

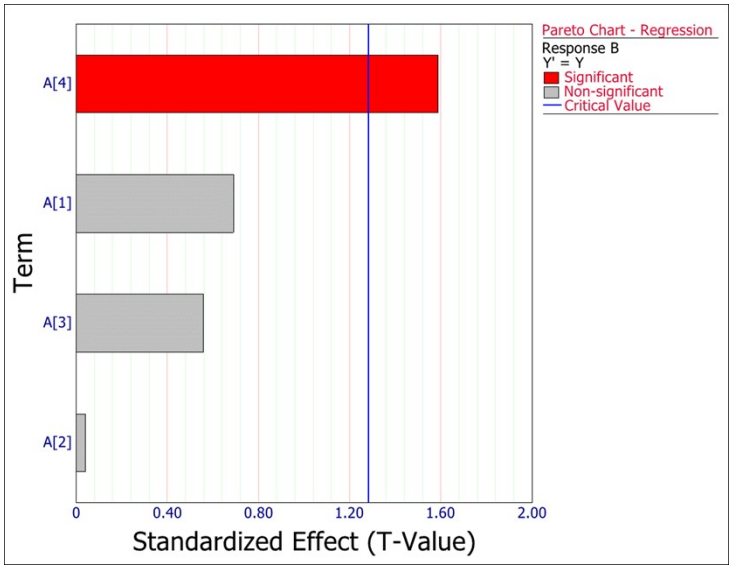
TiO2-c
TiO2-np
TIPD
TIPD; ZnO-np
TmPyPB
TS-CuPc
V2O5
WO3
WOx
ZnMgO
ZnO
ZnO-c
ZnO-np
ZnSe
Zr(acac)4
ZrO2
ZSO-np
level=0.15

SI-2 Statistical tests on Figure 2

Shown below is the T-tests undertaken for data in figure 2(a) showing the PCE values achieved from reverse bias. All values of architecture are statistically significant at risk



Shown below is the T-tests undertaken for data in figure 2(a) showing the T80 values achieved from reverse bias. Only the nip-carbon architecture is statistically significant at risk level=0.15


Pareto Chart - Regression
Response B
Y' = Y
Significant
Non-significant
Critical Value
A[4]
A[1]
A[3]
A[2]
Term
0
0.40
0.80
1.20
1.60
2.00
Standardized Effect (T-Value)