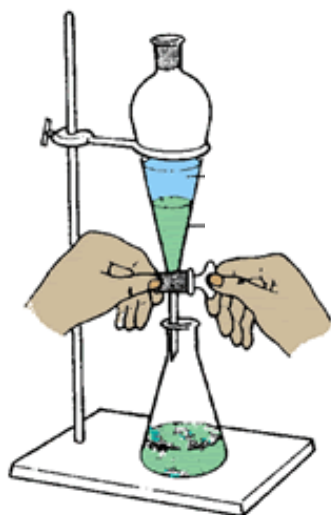
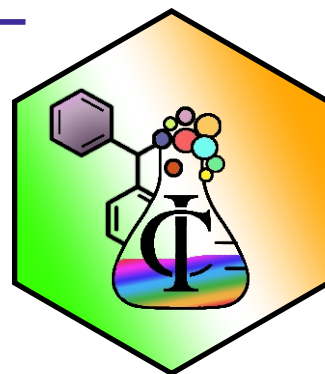


THE FINAL WORD



The official e-newsletter
of
Industrial Chemistry (IC) Department,
ISTAR, CVM University,
Vallabh Vidyanagar, Anand, Gujarat

E-Mail : headic@istar.edu.com
Visit us on : <http://istar.edu.in/IC/index.htm>



Edited by: Department of Industrial Chemistry
Prepared and Designed by: Ankit Tivari (20IC10)
Shree jaradi (21IC82)

AUGUST-SEPTEMBER– 2021

M. Sc. Industrial Chemistry

Industrial Chemistry Department

IC Department (2021-2022)

Admission in Industrial Chemistry in year 2021

Sr. No	ID NO	NAME OF THE STUDENT
1	21IC01	ADIL HUSHENBHAI BADI
2	21IC02	AKASH ASHOKBHAI PATEL
3	21IC03	AKSHAR KISHORBHAI PANCHAL
4	21IC04	AMI RAJESHBHAI PARMAR
5	21IC05	AYUSH PARESHKUMAR PATEL
6	21IC06	AYUSHIBEN ASHOKKUMAR PATEL
7	21IC07	AYUSHKUMAR BABUBHAI PATEL
8	21IC08	AZBA SALIMBHAI VADGAMA
9	21IC09	BHARGAV SUKHABHAI PATEL
10	21IC10	BHAVDIP JAGDISHBHAI DUDHAT
11	21IC11	BHUPENDRASINH CHHANGANSINH THAKOR
12	21IC12	BRIJESH MAHESHBHAI RAMANI
13	21IC13	DARSHAN VIJAYKUMAR KANSAGARA
14	21IC14	DARSHANKUMAR REVABHAI PATEL
15	21IC15	DEEPKUMAR SHANKARBHAI RASADIYA
16	21IC16	DEVANSH KUSHANGBHAI DOSHI
17	21IC17	DHRUV HEMANTKUMAR PATEL
18	21IC18	DHRUV RAJESHKUMAR PATEL
19	21IC19	DHRUVILKUMAR PRAVINBHAI PATEL
20	21IC20	DHRUVIN PRAVINBHAI KAMANI
21	21IC21	DHRUVKUMAR ASHOKBHAI PATEL
22	21IC22	DHRUVKUMAR SURESHBHAI TALAVIYA
23	21IC23	DIPAKKUMAR DINESHBHAI LUHAR
24	21IC24	GANESHKUMAR MAHENDRABHAI KHANT
25	21IC25	GAURANGKUMAR RAMESHBHAI PRAJAPATI
26	21IC26	GRISHMA SUNILBHAI LAKHANI
27	21IC27	GUNJANKUMAR KANUBHAI PATEL
28	21IC28	HARDIK MUKESHBHAI HIRPARA
29	21IC29	HARIKRUSHNSINH VANRAJSINH SINDHA
30	21IC30	HARIN SUNILKUMAR BHATT

Industrial Chemistry Department

31	21IC31	HARSHIT LALJIBHAI GHADIYA
32	21IC32	HARSHKUMAR JITENDRABHAI PATEL
33	21IC33	HARSHKUMAR KAMLESHBHAI PATEL
34	21IC34	HUSENBHAI TOFFIKBHAI VALSADI
35	21IC35	JAIVIKKUMAR RAKESHBHAI PAREKH
36	21IC36	JANVI PRAVINBHAI PATEL
37	21IC37	JAY RAMANBHAI PATEL
38	21IC38	JAY SURESHBHAI PATEL
39	21IC39	JEMI RAJESHKUMAR RADADIYA
40	21IC40	JENISHKUMAR SHISHIRBHAI PATEL
41	21IC41	KARAN TUSHARKUMAR GANDHI
42	21IC42	KARANKUMAR MINESHBHAI PATEL
43	21IC43	KARANSINH AJITSINH SOLANKI
44	21IC44	KEVAL BHUPATBHAI KORAT
45	21IC45	KEVALBHAI NARBHERAMBHAI TARAPARA
46	21IC46	KEVALKUMAR NARENDRAKUMAR PAREKH
47	21IC47	KEYUR RAMESHBHAI CHANIYARA
48	21IC48	KEYURKUMAR KALPESHBHAI PATEL
49	21IC49	KHUSHAL MUKESHBHAI PATEL
50	21IC50	KIREET PRATAPBHAI KHANT
51	21IC51	KUSHAL KANUBHAI PAREKH
52	21IC52	LAKHAN KANSARA
53	21IC53	MANSIBEN RAJESHBHAI PATEL
54	21IC54	MAULIKKUMAR DAYALAL GADARA
55	21IC55	MAYANKKUMAR HARISHBHAI PATEL
56	21IC56	MEET HIMMATBHAI NAVADIYA
57	21IC57	MEET RAMNIKLAL DETROJA
58	21IC58	MEGHA MOHAN PILLAI
59	21IC59	MIHIR PANKAJBHAI SAKARIYA
60	21IC60	MIT SANJAYKUMAR PATEL
61	21IC61	MITKUMAR HASMUKHBHAI PATEL
62	21IC62	MOHAMMADDUVAISBEG IDRISHBEG MIRZ
63	21IC63	NAVDEEP LAKHABHAI SOLANKI
64	21IC64	NEEL NIRANJANBHAI PATEL

65	21IC65	NIKHIL SHAILESHBHAI PIPALIYA
66	21IC66	NIMESH DINESHBHAI FALDU
67	21IC67	PRITESHKUMAR SHANABHAI MACHHI
68	21IC68	RAHUL RAJUBHAI DARBAR
69	21IC69	RAHUL RAMESHBHAI JOSHI
70	21IC70	RAHUL SHAMJIBHAI MATA
71	21IC71	RAHULKUMAR MAHESHBHAI PATEL
72	21IC72	RAJ SURESHSINH THAKOR
73	21IC73	RAMESHBHAI MANJIBHAI TADHA
74	21IC74	RITESH KISHORBHAI SABHANI
75	21IC75	RIYABEN MAHESHBHAI UTESHIYA
76	21IC76	RONAKKUMAR SANTOSHBHAI KOLI
77	21IC77	RUTVIKKUMAR JAGDISHBHAI KASVALA
78	21IC78	SAGARKUMAR SANJAYKUMAR CHAVDA
79	21IC79	SAHIEL NARENDRAKUMAR SHARMA
80	21IC80	SALONI GHODASARA
81	21IC81	SHAUNAKKUMAR DILIPBHAI PATEL
82	21IC82	SHREE DOLLYBEN JARADI
83	21IC83	SHREYAS BHUPATBHAI BHUT
84	21IC84	PARTH JAYANTIBHAI SATANI
85	21IC85	SMITKUMAR HITENDRABHAI SUVAGIYA
86	21IC86	SMITKUMAR NARENDRABHAI PATEL
87	21IC87	ISHA RITESHKUMAR PATEL
88	21IC88	SUJITKUMAR JITENDRAKUMAR PATEL
89	21IC89	SUMITKUMAR RAMESHKUMAR PRAJAPATI
90	21IC90	SUSHILKUMAR VIJAYKUMAR PRAJAPATI
91	21IC91	SWAPNIL VIJAYKUMAR PATEL
92	21IC92	TEJAS KANUBHAI SOLANKI
93	21IC93	VAIBHAVSINH DASHRATHBHAI PARMAR
94	21IC94	VINEETKUMAR BHIKHABHAI PATEL
95	21IC95	VIVEK ASHVINBHAI JAGANI
96	21IC96	VRUTIKKUMAR NATVARLAL PATEL
97	21IC97	VRUTTIKKUMAR HARILAL VORA
98	21IC98	YASHKUMAR MANOJBHAI PATEL
99	21IC99	ZEEL MUKESH PATEL

Saraswati Pujan:

A saraswati pooja was organised in our department on 18 September, 2021 as a welcoming of new batch. It was conducted in traditional manner to enlighten students and for a brightful beginning.



Industrial Chemistry Department

Blood Donation Camp:

A blood donation camp was held on 14 September, 2021 conducted by NSS committee. 65 students were enthusiastically participated in the camp.



Industrial Chemistry Department

Vaccination Camp:

A vaccination camp was held on 24 september,2021. It was also conducted by NSS committee of our college. Around 60 to 70 students have participated in the camp.



Industrial Chemistry Department

SICART Training :

3 Days instrument training from 27-29 August, 2021 was arranged for Msc 3 sem students in SICART (Vallabh Vidhya Nagar) as a introduction of instruments that are widely used in industries. it included instruments like GC, HPLC ,FTIT



Industrial Chemistry Department

Hydrogen Production: Photoelectrochemical Water Splitting

In photoelectrochemical (PEC) water splitting, hydrogen is produced from water using sunlight and specialized semiconductors called photoelectrochemical materials, which use light energy to directly dissociate water molecules into hydrogen and oxygen. This is a long-term technology pathway, with the potential for low or no greenhouse gas emissions.

The PEC water splitting process uses semiconductor materials to convert solar energy directly to chemical energy in the form of hydrogen. The semiconductor materials used in the PEC process are similar to those used in photovoltaic solar electricity generation, but for PEC applications the semiconductor is immersed in a water-based electrolyte, where sunlight energizes the water-splitting process.

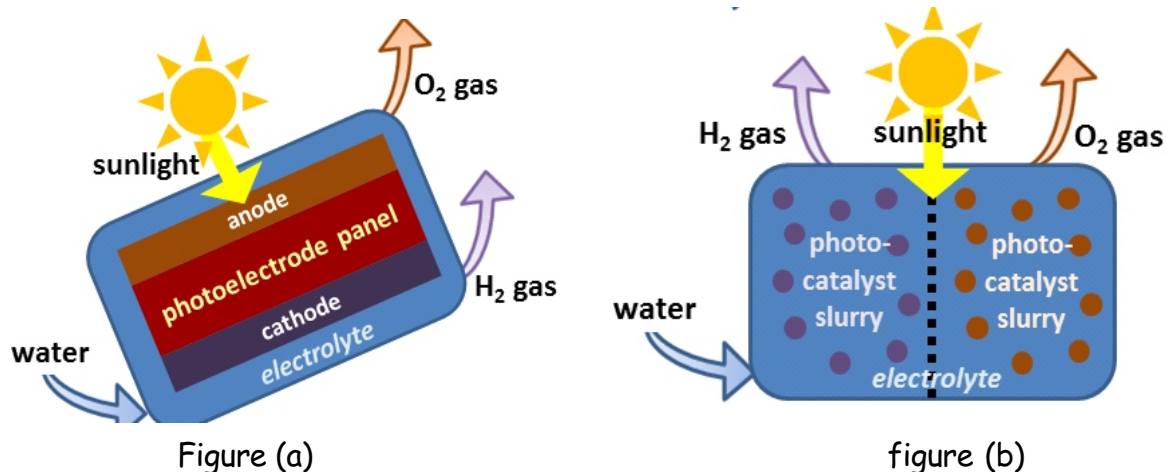


Figure 1(a&b) shows two different approaches to PEC solar hydrogen production reactors: (a) electrode systems similar to flat-plate photovoltaic panels; and (b) particle systems comprised of slurries of PEC semiconductor particles.

PEC reactors can be constructed in panel form (similar to photovoltaic panels) as electrode systems or as slurry-based particle systems, each approach with its own advantages and challenges. To date, panel systems have been the most widely studied, owing to the similarities with established photovoltaic panel technologies. on each figure (1&2) some different possible implementations of both the panel and slurry reactor concepts.

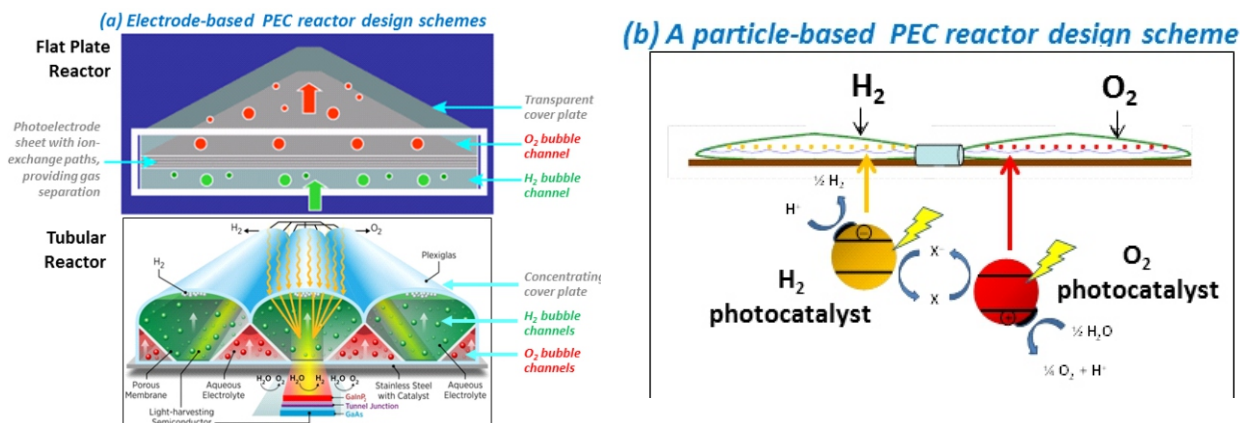


Figure 2 shows possible PEC reactor design schemes for (a) electrode systems, including a flat plate and a tubular reactor (providing moderate solar concentration onto one electrode strip); and (b) a plastic "baggie" covered dual bed particle reactor with wide-by-side photocatalyst slurries.

Ankit T Tivari
(20ic10)

Sweet Words from Family



Gaurang D Patel (2012 - 14)
GSFC Ltd, Vadodara.

This department actually works for their students. Faculty develops all type skill of students which required in industrial as well in normal life. The relation of department and student never ends. Department always stay in touch with students and helping them throughout their carrier and life. Quality education, practical skill, job placement are taken as responsibility of faculty in department.