# Curriculum Vitae


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|---|---|
| Sure name | El-Naggar |
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## Qualifications

1- Bachelor of Science, major chemistry, major grade very good (Ain Shams University, Egypt).
2- Master of Science (Ain Shams University, Egypt).
3- PhD (Institute for Molecular Bioscience, The University of Queensland, Australia).

## Affiliations

1997-2000 Master student at photoenergy center, Ain Shams University, Egypt.

2002-2005 Researcher at National Institute of Oceanography and Fishery, Egypt (NIOF).

2005-2009 PhD, IMB Australia (University of Queensland).

2010-2011 Assistant professor at The College for Health Sciences, Bukairya, Qassim university (Saudi Arabia).

2011-now Assistant professor at The Chemistry Department, The College of Science, Sharjah University (UAE).

## Work experience

Firstly, during my master I gained experience with photoenergy usage and its applications in combating pollutants, using UV-Vis spectrophotometer, spectrofluorophotometers, and TOC (total organic carbon analyser) as detecting tools.[1]

Secondly, at NIOF I was working at detection of organic pollutants using GC spectrophotometers for detection of such pollutants.[2]

I did my PhD under the supervision of Prof. Rob Capon (University of Queensland, Australia), my PhD focused on isolation and structure elucidation of cytotoxic compounds from marine organisms, using a variety of instrumentations such as HPLC, NMR and LC-MS.[3, 4,5]

Currently, I am working as assistant professor at The University of Sharjah, UAE.

## Instrumentations

I have good knowledge about, UV-Vis spectrophotometer, spectrofluorophotometer, GC spectrophotometer, HPLC (Agilent), LC-Ms (Agilent), NMR (1D&2D) experiments (Bruker, 600 MHz), atomic absorption (AAS) and polarimeter.

### Areas of interest

Organic synthesis
Natural products chemistry
Environmental chemistry

## Teaching Experience

Three years teaching experience at School of Chemistry and Molecular Bioscience (the University of Queensland, Australia) as a tutor/demonstrator for courses Chem 1020 (Chemical Energetic and Reactivity) and Chem 1030 (Chemical Structure and reactions).

One year teaching at The College for Health Sciences, Bukairya, Qassim University (Saudi Arabia). Qassim University (Saudi Arabia).
Courses: Chem 101 General Chemistry.

2011-now I am working as assistant professor at The Chemistry Department, The University of Sharjah, Sharjah, UAE.
Courses Taught at UOS:
General Chemistry for MS (1427-107)
General Chemistry for HS (1426-155)
General Chemistry-1 (1420-101)
General Chemistry-1 lab (1420-102)
Organic Chemistry-1 (1420-211)
Organic Chemistry-2 (1420-217)
Environmental Chemistry (1420-454)
Chemistry of Natural Products (1420-412)
Chemistry Research project (1420-490)

### Grants

1- MSc scholarship, Photoenergy Center (Egypt).
2- PhD scholarship, Ministry of Higher Education (Egypt).

3- NRF U-IRCA 2013 Award, External grant, "Emirates Liver Assist Device (EmLAD) for liver failure treatment using activated carbon (Charcoal) produced from local plants and date pits" 200,000 AED, CoPI.

4- Effect of roasting on the alkaloids content in coffee beans. Undergraduate Research Project. 2016, AED 3,000

5- Photostability and Photodegradation of Some Organic Dyes using Photocatalysts. Undergraduate Research Project. 2015, AED 2,000.

6- Transcriptomics and Metabolomics analysis to Reveal Salt and Heat Stress Related Genes, Phytohormones, and Osmolytes in Facultative Halophytes plant of the UAE (2017- 2019). Funded by University of Sharjah (196,000 AED), 2017-2019. CoPI.

7- Synthesis and biological evaluation of new naphthalene subistituted amidrazone derivatives as potent anticancer agents. Undergraduate Research Project. 2017, AED 3,000.

8- Synthesis of new 5-aminosalycilic acid derivatives with promicing anticancer activity. Undergraduate Research Project. 2017, AED 5,000.

9- Synthesis of new isonicotinic acid hydraziedderivatives with potential antituberculosis activity. Undergraduate Research Project. 2019, AED 5,000.

10- Synthesis of new 1,2,4-triazole derivatives with potential antimicrobial activity. Undergraduate Research Project. 2021, AED 5,000.

11- Design, Synthesis and Cytotoxic Evaluation of Some Novel 1,2,4-Triazole and 1,2,3-Triazole Hybrid Compounds, Funded by University of Sharjah competitive grant (76,000 AED), 2021-2023. PI.

12- Design Synthesis and cytotoxic evaluation of some novel 1,2,4- Triazole and diazene hybrid derivatives. Funded by University of Sharjah competitive grant (92,000 AED), 2022-2024. PI.

13- Design, synthesis and anticancer evaluation of novel organic and organometallic compounds based on fluoroquinolone scaffold Funded by University of Sharjah competitive grant (189,000 AED), 2023-2026. CoPI.

## Conferences and Workshops

The 5th international conference on solar energy and applied photochemistry, SOLAR’99 (Poster) 1999.

The 6th international conference on solar energy and applied photochemistry, SOLAR'01 2001.

3D at the Cove, Australia (13 July-17 July, 2009), Novel Cytotoxic Heterocycles from Southern Australian Marine Sponges, poster.

Awareness Workshop on Chemical Safety and Security Program" (October 2, 2011) &"Chemical Safety and Security Officer Training for Laboratory Settings" (October 3-5, 2011), Organized by the Department of Chemistry in collaboration with *"Sandia National Laboratories, USA"* and held in the College of Sciences at the University of Sharjah, Sharjah, United Arab Emirates.

Academic accreditation workshop (National Qualification Framework Emirates & TaskStream, The University of Sharjah, 24/3/2013.

Member of the "Organizing Committee" and "Scientific Committee" of the Symposium on: "Chemistry and Environment" Held at the Chemistry Department, University of Sharja in 16/5/2013.

Member of the "Organizing Committee" and "Scientific Committee" of the Symposium on: "Chemistry and Environment" Held at the Chemistry Department, University of Sharjah in 2017.

Biocompatible and water-soluble gold-carbon nanoparticles
B Atallah, I Shehadi, M Naggar, A Mohamed
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 253, San Francisco, California, 2017.

Conjugates of water-soluble gold-carbon nanoparticles with proteins
M Hameed, I Mohamed, M Naggar, I Shehadi, A Mohamed
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 254, Washington DC, 2017.

## Computer skills

Good knowledge about Windows and its applications, Win Office, Chem Office, Chem Station for Agilent HPLC and Top Spin for Bruker NMR.

## Hobbies

Reading, walking , soccer and table tennis

## Professional Experience

## Achievement in teaching

**Familiar with credit hours academic system**

**All my courses were developed for posting in the Blackboard course management software.**

Courses were taught in smart class room

Lectuers were delivered as MS power point

For each course a complete and continually updated course file was compiled for future reference.

Develop the course content for all courses that I teach

Replace the old text book with new and updated one

Integrate course goals and outcomes that serve the program's objectives

Suggested and developed new elective courses

I have developed and used a diversity of assessment and evaluation tools, including class discussion and participation, oral presentation, homework and assignment, quizzes, reports

## Community Service

Continuous school visits to do students projects assessment

Participate in the 41th UAE National Day Ceremony (November 29, 2012)

Meeting with a Russian academic delegation, who visited the University of Sharjah to establish research collaboration (November 14, 2013)

Presented and attended several scientific and workshops at UOS

## Publications

1.Abdel-Mottaleb, M. S. A.; Galal, H. R.; Dessouky, A. F. M.; **El-Naggar, M**.; Mekkawi, D.; Ali, S. S.; Attya, G. M., Fluorescence and Photostability studies of Anthracen-9-carboxylic acid in Different Media. *International Journal of Photoenergy* **2000,** 2, 47-53.

2.El-Deeb, K. Z.; Said, T. O.; **El-Naggar, M.**; Shreadah, M. A., Distribution and Sources of Aliphatic and Polycyclic Aromatic Hydrocarbons in Surface Sediments, Fish and Bivalves of Abu Qir Bay (Egyptian, Mediterranean Sea). *Bulletin of Environmenal Contamination and Toxicology* **2007,** 78, 373-379.

3**.El-Naggar, M**.; Piggott, A. M.; Capon, R. J., Bistellettazines A-C and bistellettazole A: New terpenyl-pyrrolizidine and terpenyl-imidazole alkaloids from a southern Australian marine sponge, *Stelletta* sp. *Organic Letters* **2008,** 10(19), 4247-4250.

4-Novel cytotoxic heterocycles from southern Australian marine sponges
RJ Capon, **M El-Naggar**, H Zhang
Planta Medica 74 (9), (2008)1036-1037

5.**El-Naggar, M**.; Capon, R. J., Discorhabdins Revisited: Cytotoxic Alkaloids from Southern Australian Marine Sponges of the Genera *Higginsia* and *Spongosorites* . *Journal of Natural Products* **2009,** 72(3), 460-464.

6.**El-Naggar, M**.; Conte, M.;Capon, R. J., Mirabilins Revisited: Polyketide Alkaloids from a Southern Australian Marine Sponge, *Clathria* sp., *Org. Biomol. Chem*., **2010**, 8, 407-412.

7-Gilded hope for medicine, **M El Naggar**, I Shehadi, HE Abdou, AA Mohamed
Inorganics, 2015, 3 (2), 139-154

8-Modification of Nanodiamonds with Gold Nanoparticles, S Orefuwa, **M El-Naggar**, I Shehadi, MM Chehimi, AA Mohamed, Journal of Nanoscience and Nanotechnology, 2017, 17 (6), 4063-4068

9-Forensic Nanotechnology: Engineering Polyaniline Nanocomposites for Latent Fingerprints Development
A Lafi, I Shehadi, **M El-Naggar**, H Alawadhi, HE Abdou, AA Mohamed
Journal of Nanoscience and Nanotechnology, 2017, 17 (5), 2865-2872

10-Bis-(5-substituted-2-thiono-1, 3, 5-thiadiazinan-3-yl) butane as a scaffold of anti-proliferative activity, blended by a multicomponent process
AN El-Shorbagi, **M El-Naggar**, H Tarazi, S Chaudhary, H Abdu-Allah, ...
Medicinal Chemistry Research, 2018, 27 (4), 1103-1110

11-Design, Synthesis and Antitumor Evaluation of Novel Pyrazolopyrimidines and Pyrazoloquinazolines
**M El-Naggar**, AS Hassan, HM Awad, MF Mady
Molecules, 2018, 23 (6), 1249

12- Pyridine-Ureas as Potential Anticancer Agents: Synthesis and In Vitro Biological Evaluation.
**M El-Naggar**, H Almahli, HS Ibrahim, WM Eldehna, HA Abdel-Aziz,
Molecules, 2018, 23 (6), 1459

13-Novel Thiazolidinone/Thiazolo [3, 2-a] Benzimidazolone-Isatin Conjugates as Apoptotic Anti-proliferative Agents Towards Breast Cancer: One-Pot Synthesis and In vitro Biological Evaluation.
**M El-Naggar**, WM Eldehna, H Almahli, A Elgez, M Fares, MM Elaasser,
Molecules, 2018, 23 (6).1420

14- In vitro and In vivo Anti-Breast Cancer Activities of Some Synthesized Pyrazolinyl-Estran-17-one Candidates.Abd El-Galil E.Amr, **Mohamed El-Naggar**, Mohamed A. Al-Omar, Elsayed Ahmed Elsayed and Mohamed M. Abdalla,
Molecules, 2018, 23 (6).1572

15- Tetrahydroindolocarbazoles (THICZs) as new class of urokinase (uPA) inhibitors: Synthesis, anticancer evaluation, DNA-damage determination, and molecular modelling study. El-Sharief, M.A.M.S. , **El-Naggar, M.H**. , Ahmed, E.M. , El-Messery, S.M. Mahmoud, A.E. , Ali, M.M. , Salem, L.M. , Mahrous, K.F. , El Sayed, M.T, Bioorganic Chemistry, 2018, 80.545-554

16- Copper nanoparticles induced genotoxicty, oxidative stress, and changes in superoxide dismutase (SOD) gene expression in cucumber (cucumis sativus) plants Mosa, K.A. **El-Naggar, M.** , Ramamoorthy, K. , Alawadhi, H. , Elnaggar, A. , Wartanian, S. , Ibrahim, E. , Hani, H. Frontiers in Plant Science,2018, 9

17- Synthesis, characterization, and cytotoxic evaluation of some newly substituted diazene candidates, **Mohamed El-Naggar**, Abdel-Nasser El-Shorbagy, Dina H. Elnaggar, Abd El-Galil E. Amr, Mohamed A. Al-Omar and Elsayed A. ELsayed, Journal of Chemistry, 2018.

18- Assessment of polycyclic aromatic hydrocarbons in surface sediments and some fish species from the Gulf of Suez, Egypt.AM Younis, YA Soliman, EM Elkady, **MH El-Naggar** Egyptian Journal of Aquatic Biology and Fisheries, 2018, 22 (4), 49-59

19- Post-synthetic modification of MIL-125 with bis-quinoline Mannich bases for removal of heavy metals from wastewater
RM Abdelhameed, RA Ismail, **M El-Naggar**, ES Zarie, R Abdelaziz, ...
Microporous and Mesoporous Materials, 2019, 279, 26-36

20-Assessment of Polycyclic Aromatic Hydrocarbons and Heavy Metals Contamination in the Egyptian Smoked Herring (*Clupea harengus*)
**M El-Naggar**, AM Younis, HF Amin, OM Ahmed, YY Mosleh
Polycyclic Aromatic Compounds, 2019, 1-11

21- **Design, synthesis, and molecular docking study of novel heterocycles incorporating 1,3,4-thiadiazole moiety as potential antimicrobial and anticancer agents M El-Naggar**, M., Sallam, H.A., Shaban, S.S., (...), Nossier, E.S., Al-Omar
Molecules 2019, 24 (6), 1066

22-**Novel phthalimide based analogues: Design, synthesis, biological evaluation, and molecular docking studies**
IMM Othman, MAM Gad-Elkareem, M El-Naggar, ES Nossier, AEGE Amr
Journal of enzyme inhibition and medicinal chemistry 2019, 34 (1), 1259-1270

23-**Potent Anti-Ovarian Cancer with Inhibitor Activities on both Topoisomerase II and V600EBRAF of Synthesized Substituted Estrone Candidates**
M El-Naggar, AEGE Amr, AA Fayed, EA Elsayed, MA Al-Omar,
Molecules 2019 24 (11), 2054

24-**Novel Aminoacridine Sensors Based on Molecularly Imprinted Hybrid Polymeric Membranes for Static and Hydrodynamic Drug Quality Control Monitoring**

S SM Hassan, E Amr, A El-Galil, H Abd El-Naby, M El-Naggar, A H Kamel, Materials 2019, 12 (20), 3327

25- **Old leaves accumulate more heavy metals than other parts of the desert shrub *Calotropis procera* at a traffic-polluted site as assessed by two analytical techniques**
A Almehdi, A El-Keblawy, I Shehadi, M El-Naggar, I Saadoun, KA Mosa, International journal of phytoremediation, 2019, 1-9

**26- Novel Solid-State Potentiometric Sensors Using Polyaniline (PANI) as A Solid-Contact Transducer for Flucarbazone Herbicide Assessment**
AH Kamel, AEGE Amr, NS Abdalla, M El-Naggar, MA Al-Omar, Polymers 2019, 11 (11), 1796

27- **Towards breast cancer targeting: Synthesis of tetrahydroindolocarbazoles, antibreast cancer evaluation, uPA inhibition, molecular genetic and molecular modelling studies**
EM Ahmed, AE Sarhan, DH El-Naggar, RR Khattab, M El-Naggar, Bioorganic chemistry 2019, 93, 103332

28- **Designing a sensitive luminescent probe for organophosphorus insecticides detection based on post-synthetic modification of IRMOF-3**
RM Abdelhameed, M El-Naggar, M Taha, S Nabil, MA Youssef, Journal of Molecular Structure 2020, 1199, 127000

**29- Synthesis of Some Novel Quinolinols with in-vitro Anti-microbial and Antioxidant Activity,** Marwa A. Sh. Shehab, **Mohamed El-Naggar**, Ameen A. Abu-Hashem, Hala M. El Kafrawy, Amira Abood, Shaymaa A. Ismail, Nermien M. Sabry and Mardia T. El Sayed,Current Bioactive Compounds. 2020, 16(4).

**30-** Novel Pyruvate Kinase (PK) Inhibitors: New Target to Overcome Bacterial Resistance, Mardia T El Sayed, Alaadin E Sarhan, Entsar Ahmed, Reham R Khattab, **Mohamed El-Naggar**, Shahenda M El-Messery, Moataz A Shaldam, Ghada S Hassan, Chemistry Select, 2020, 3445-3453

31- Synthesis, Characterization, Antibacterial Activity, and Computer-Aided Design of Novel Quinazolin-2, 4-dione Derivatives as Potential Inhibitors Against Vibrio cholerae, **Mohamed El-Naggar**, Mahmoud Eldeeb Mohamed, Ahmed Mohamed Mosallam, Wesam Salem, Huda RM Rashdan, Aboubakr Haredi Abdelmonsef, Evolutionary Bioinformatics, 2020, 1-13

32- New Potent 5α-Reductase and Aromatase Inhibitors Derived from 1, 2, 3-Triazole Derivative, **Mohamed El-Naggar**, Amira S Abd El-All, Shweekar IA El-Naem, Mohamed M Abdalla, Huda RM Rashdan, Molecules, 2020, 672

33- Modified Screen-Printed Potentiometric Sensors based on Man-Tailored Biomimetics for Diquat Herbicide Determination, Ayman H Kamel, Abd El-Galil E Amr, Nashwa S Abdalla, **Mohamed El-Naggar**, Mohamed A Al-Omar, Abdulrahman A Almehizia, International Journal of Environmental Research and Public Health, 2020, 1138

34- Chiral Pyridine-3, 5-bis-(L-phenylalaninyl-L-leucinyl) Schiff Base Peptides as Potential Anticancer Agents: Design, Synthesis, and Molecular Docking Studies Targeting Lactate, Abd El-Galil E Amr, Randa E Abdel Mageid, **Mohamed El-Naggar**, Ahmed M Naglah, Eman S Nossier, Elsayed A Elsayed, Molecules, 2020, 1096

35- Novel quinazolin-2, 4-dione hybrid molecules as possible inhibitors against Malaria: Synthesis and In silico molecular docking studies
AH Abdelmonsef, ME **Mohamed, M El-Naggar**, H Temairk, AM Mosallam
Frontiers in Molecular Biosciences, 2020, 7, 105

36- Bioactivity and DNA/BSA Interactions of Selenium N-Heterocyclic Carbene Adducts, Rizwan Ashraf, Muhammad Adnan Iqbal, Haq Nawaz Bhatti, Muhammad Ramzan Saeed Ashraf Janjua, **Mohamed El-Naggar,** ChemistrySelect, 2020,5(35)

37- Synthesis, spectrophotometric, voltammetric, and density functional theory studies of tetrahydro[3,2-*b*]indolocarbazoles for sensing small molecules, Zehbah Ali Al-Ahmed, Ibrahim HI Habib, Reham R Khattab, Reda M Abdelhameed, **Mohamed El-Naggar**, Moursi H Abu Bieh, Sergey A Pisarevd, Andrey Voronkov, Mardia T El Sayed, 202, Journal of Heterocyclic Chemistry 58 (1), 127-136, 2021

38- Thiazole-Based Thiosemicarbazones: Synthesis, Cytotoxicity Evaluation and Molecular Docking Study. Sobhi M Gomha, Hyam A Abdelhady, Doaa ZH Hassain, Aboubakr H Abdelmonsef, **Mohamed El-Naggar**, Mahmoud M Elaasser, Huda K Mahmoud. 2021, Drug design, development and therapy 15, 659, 2021

39- Synthesis, Molecular Docking Studies and In Silico ADMET Screening of New Heterocycles Linked Thiazole Conjugates as Potent Anti-Hepatic Cancer Agents
HRM Rashdan, **M El-Naggar**, AH Abdelmonsef, Molecules, 2021 26 (6), 1705, 2021
40- Eco-Friendly Synthesis, Biological Evaluation, and In Silico Molecular Docking Approach of Some New Quinoline Derivatives as Potential Antioxidant and Antibacterial Agents
AM El-Saghier, **M El-Naggar**, AHM Hussein, ABA El-Adasy, M Olish
Frontiers in chemistry 9, 2021

41- New Amino Acid Schiff Bases as Anticancer Agents via Potential Mitochondrial Complex I-Associated Hexokinase Inhibition and Targeting AMP-Protein Kinases/mTOR Signaling Pathway
AA Noser, AH Abdelmonsef, **M El-Naggar**, MM Salem
Molecules 26 (17), 5332, 2021

42- Seasonal and Temporal Influence on Polycyclic Aromatic Hydrocarbons in the Red Sea Coastal Water, Egypt
**M El-Naggar**, S Hanafy, AM Younis, MA Ghandour, AAY El-Sayed
Sustainability 13 (21), 11906, 2021

43-Design, DFT studies, antimicrobial and antioxidant potential of Binuclear N-heterocyclic Carbene (NHCs) complexes, Probing the aspect of DNA interaction through In-vitro,
Rizwan Ashraf, Maria Javed, Tugba Taskin-Tok, Raziya Nadeem, Muhammad Kashif Javaid, **Mohamed El-Naggar**, Othman M Alzahrani, Samy F Mahmoud, Computational biology and chemistry 95, 107591, 2021

44-A search for antiinflammatory therapies: Synthesis, in silico investigation of the mode of action, and in vitro analyses of new quinazolin-2,4-dione derivatives targeting phosphodiesterase-4 enzyme, Aboubakr H. Abdelmonsef,Mohamed A. Abdelhakeem,Ahmed M. Mosallam,Hussain Temairk, **Mohamed El-Naggar**,Hend Okasha,Huda R. M. Rashdan, Journal of Heterocyclic Chemistry 59 (3), 474-492, 2022

45-Cholyl 1, 3, 4-oxadiazole hybrid compounds: design, synthesis and antimicrobial assessment, AJ Rasras, **M El-Naggar**, NA Safwat, RA Al-Qawasmeh
Beilstein Journal of Organic Chemistry 18 (1), 631-638, 2022

46- Pyrido-pyrimido-thiadiazinones: Green synthesis, molecular docking studies and biological investigation as obesity inhibitors, Ferid Yaccoubi, **Mohamed El-Naggar**, Fathy M Abdelrazek, Sobhi M Gomha, Mohamed S Farghaly, Tariq Z Abolibda, Lobna A Ali, Aboubakr H Abdelmonsef, Journal of Taibah University for Science, 16 (1), 1275-1286, 2022

47- Synthesis, molecular docking and anticancer potential of azolium based salts and their silver complexes: DNA/BSA interaction studies and cell cycle analysis. Rizwan Ashraf, Ayesha Sarfraz, Tugba Taskin-Tok, Muhammad Javid Iqbal, Muhammad Adnan Iqbal, Jamshed Iqbal, Haq Nawaz Bhatti, **Mohamed El-Naggar**, Sumia Akram, Mohammad N Murshed, Mohamed E El Sayed, Ahmed Samir, Journal of Molecular Liquids, 369, 120921, 2023

48- Synthesis, combined theoretical and spectral characterization of some new 1, 3, 5 triazine compounds, and their in vitro biological analysis.Sadia Noureen, Shaukat Ali, Muhammad Anjum Zia, Muhammad Afzal, Ali Raza Ayub, **Mohamed El-Naggar** , Reaction Chemistry & Engineering 8 (2), 465-481, 2023

49- Design, synthesis and antimicrobial assessments of aminoacetylenic-piperazine nitroimidazole hybrid compounds. Anas J Rasras, Raed A Al-Qawasmeh, **Mohamed El-Naggar**, Ihsan Shehadi, Mahmoud M Elaasser, Yaseen A Al-Soud, Zeitschrift für Naturforschung C 78 (3-4), 113-121, 2023

50- Cyclization of Chalcone Derivative: Design, Synthesis, In silico Docking Study and Biological Evaluation of New Quinazolin-2,4-diones Incorporating Five-, Six- and Seven-Membered Ring Moieties as Potent Antibacterial Inhibitors. **Mohamed El-Naggar**, Huda R. M. Rashdan, Aboubakr Haredi Abdelmonsef, ACS Omega, accepted

**References** :

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