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| Division of Material Chemistry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Research field                                                                                                    | Function Development Chemistry | Lab. ID<br>MC15 |
| Laboratory web site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="http://kohka.ch.t.kanazawa-u.ac.jp/lab2/lab2.html">http://kohka.ch.t.kanazawa-u.ac.jp/lab2/lab2.html</a> |                                |                 |
| Research subjects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                   |                                |                 |
| <p>Modified electrode maintains the function of the catalysis, the selective reactivity, transducer and the sensor, and the development is expected of wide learning field and application field. But when not understanding “electron transfer process” and “molecular recognition system” in electrode interface and that neighborhood theoretically/experimentally, development of a new modified electrode can't be expected. Therefore a peculiar reaction on modified electrode is considered from the angle of the charge-transfer mechanism and the intermolecular interaction using an electrochemical method, I'm aiming at design and development of a new functionalized molecule modified electrode which can control specific chemical reaction.</p> |                                                                                                                   |                                |                 |
| Master/Doctor course: Education policy, curriculum, typical activity in the laboratory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                   |                                |                 |
| <p>Master course: After arranging with me about a policy of a study, I'm being led to make a plan by yourself and be advancing your study. Further, to advance your study by yourself, a background of the study is learned through a workshop (once a month), a study meeting (once a month) and a journal meeting (3 times a year).<br/>To foreign students: The conversation at this laboratory is Japanese, so I wish that you're able to understand Japanese a little.</p>                                                                                                                                                                                                                                                                                    |                                                                                                                   |                                |                 |
| Daily life in the laboratory, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                   |                                |                 |
| <p>When you can defend safety and health protection as a chemist and promise of a group activity, I think a free study life can be spent. If you're interested, I'd hope that you ask a student in this laboratory the state of the laboratory.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                   |                                |                 |
| Message or comments by the laboratory faculty staffs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                   |                                |                 |
| <p>Though we're living a comfortable life by electrochemistry, I don't know the true form of the electrode reaction well. At present, we're working on a study of the oxygen reducing catalyst which connects to fuel cell development and a study of new electroconductive polymer aiming at a power storage device, but It'll be a research task to make the factor of a function expression clear by taking notice of a reaction path in the peculiar reaction field and use convenience for a electrode reaction. Let's go to look for the truth of the electrode reaction that is not yet elucidated.</p>                                                                                                                                                     |                                                                                                                   |                                |                 |
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